Colour television 28DC2070

/20R/21R/25R/39R

Service
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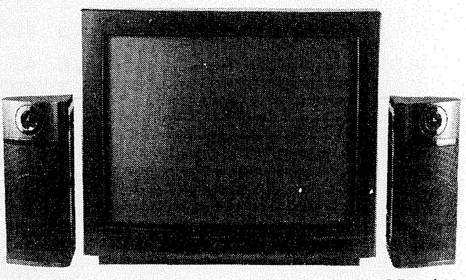
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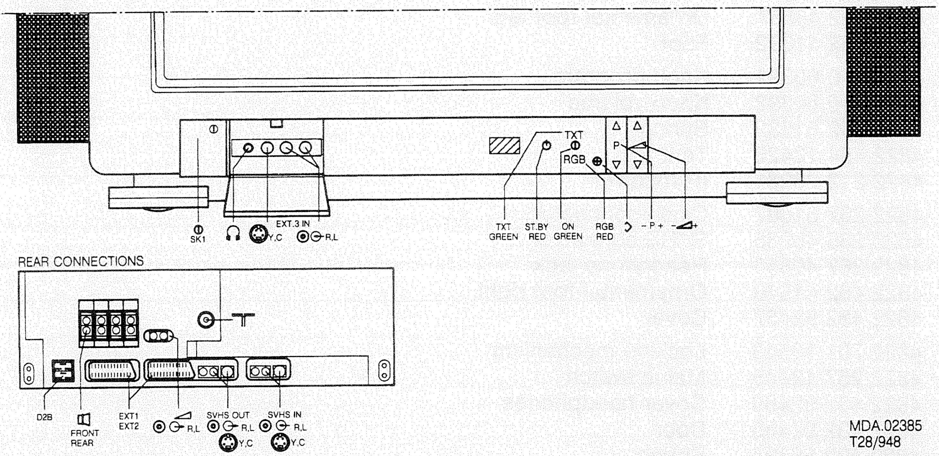
Service Manual

CHASSIS D16-III

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.


TXT
RGB
P
SK1
EXT.3 IN
Y,C
R,L
TXT GREEN
ST.BY RED
ON GREEN
RGB RED
- P +
- +
REAR CONNECTIONS
D2B
FRONT
REAR
EXT1
EXT2
R,L
SVHS OUT
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SVHS IN
R,L
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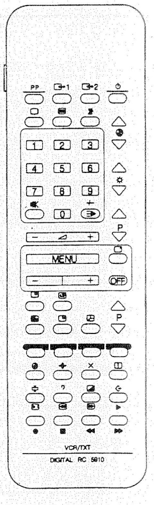
MENU
OFF
VCR/TXT
DIGITAL RC 5910

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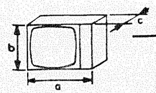
T02-934

RC5910

→ 220-240 V (± 10%)
110 W CENELEC

→ A66EAK22X13



→ a×b×c
642×546×474 mm
excl. l.s. boxes

→ -/20 -/21 } PAL B/G
SECAM B/G/L
NTSC M

-/39 } PAL B/G/I
SECAM B/G/L/L'

-/25 } PAL I

→ 2x30 W/8Ω

→ Front 2x24 W/8Ω
Rear 2x 6 W/8Ω

UV816 -/20 -/21 -/39	**U944 -/25**
VHFa : 46-118 MHz	-
VHFb : 118-300 MHz	-
UHF : 470-861 MHz	UHF : 470-861 MHz
HYP : 300-470 MHz	-

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

Subject to modification

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PHILIPS

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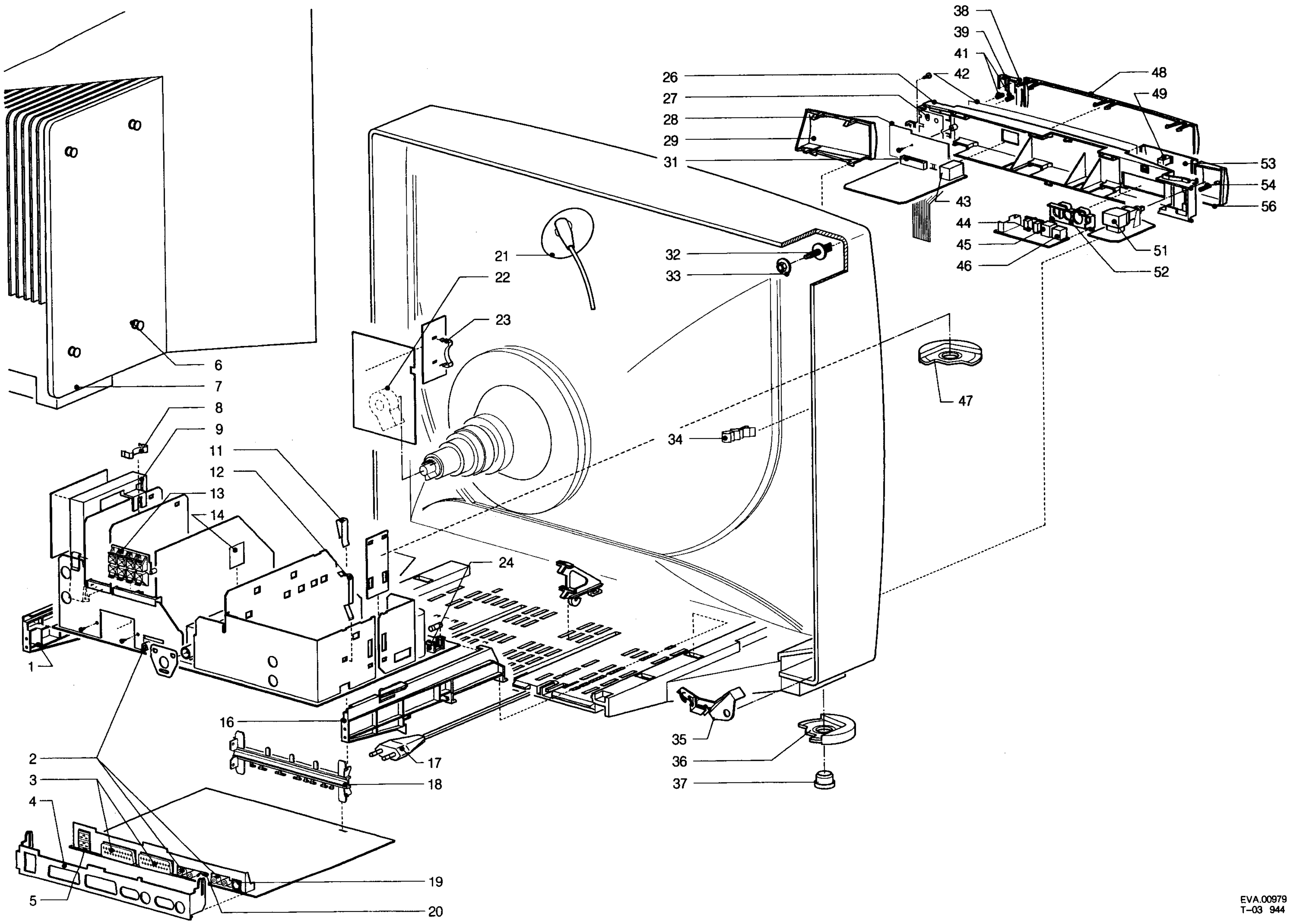
Service Consumer Electronics

1	4822 404 31016	Chassis bracket left
2	4822 267 31087	Cinch connector
3	4822 267 50661	Scart socket
4	4822 432 10787	Cover plate
5	4822 267 40902	D2B connector
6	4822 502 12854	Bolt for loudspeaker box
7	4822 438 40154	Rear cover
7	4822 438 40155	Rear cover (-/25)
8	4822 492 62076	Spring for audio IC's
9	4822 404 31047	Nicam bracket (-/21;-/25)
11	4822 492 63524	Spring for transistor
12	4822 492 70272	Clamping spring
13	4822 290 60812	Connector for loudspeakers
14	4822 325 80357	Ceramic insulator
16	4822 404 31017	Chassis bracket right
17	4822 321 10611	Mains lead
17	4822 321 10659	Mains lead (-/25)
18	4822 417 11064	Hinge
19	4822 265 40934	SVHS connector
20	4822 265 30764	SVHS conn. incl. switch
21	4822 320 20162	EHT cable
22	4822 255 70256	Picture tube socket
23	4822 492 62076	Spring
24	4822 256 30274	Fuse holder
26	4822 256 91567	Holder incl. foil
27	4822 432 10798	Knob foil
28	4822 218 10303	Keyboard
29	4822 432 92468	Cover right
31	4822 267 50937	Connector for keyboard
32	4822 535 92924	Spindle
33	4822 505 10903	Nut
34	4822 404 30709	Clamp
35	4822 404 31018	Clamp
36	4822 462 41551	Ornamental foot left
37	4822 462 41392	Foot
38	4822 410 60391	Knob program
39	4822 410 60392	Knob volume
41	4822 492 51632	Spring
42	4822 454 12426	Text foil
43	4822 212 23281	IR receiver
44	4822 267 31087	Cinch connector
45	4822 265 40935	SVHS connector
46	4822 267 40856	Headphone jack
47	4822 462 41549	Ornamental foot right
48	4822 432 92467	Cover
49	4822 701 10548	Locking mechanism
51	4822 267 12445	Mains switch
52	4822 432 92469	Cover headphones
53	4822 432 92466	Door
54	4822 492 52134	Spring
56	4822 410 60389	Knob mains
	4822 218 10249	Remote control RC5910
	4822 445 10225	LS box right
	4822 445 10224	LS box left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EVA.00979
T-03 944

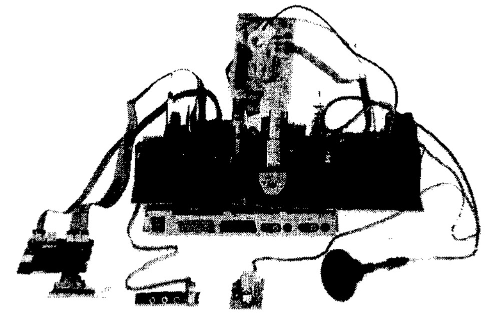
CS 26 401

Colour television

CHASSIS D16-II
CHASSIS D16-III

Service
Service
Service

PHIL-05102



Service Manual

For sets with AG production number AG2., AG3. and onwards

TABLE OF CONTENTS **Page**

Technical data 1
Operating instructions (Operation and control) 2,3
Warnings 4
Remarks 4,5
Mechanical instructions 6,7
Survey supply voltages 7
Electrical instructions 8÷11
Survey of D16 diversities 12
Block diagram 12
Wiring diagram 13
Diagram A (Operation) 14
Layout of the control panel 14
Diagram B (Source select panel) 15,18
Layout of the mains switch panel 16
Layout of the headphone panel 16
Layout of the source select panel 16,17
Diagram G (FM Demodulator) 17
Diagram C (Sound processing) 18
Diagram I (NICAM decoder) 19
Layout NICAM decoder 19
Diagram E (Tuner/picture tube panel) 20
Layout of the picture tube panel 20
Block diagram Digital video panel 21
Layout PIP module 21
Diagram H (PIP module) 22
Layout of the chassis 23,25
Diagram F (Power supply and deflection) 24
Diagram J (D2MAC module) 26
Parts lists 27÷31
List of error messages 32

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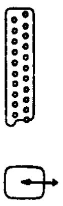
CHASSIS D16-III

TECHNICAL DATA

Mains voltage	: 220 - 240 V (±10%); 50 Hz (±5%)
Aerial input impedance	: 75 Ω - coax
Minimum aerial input	: 30µV (VHF/S) 40µV (UHF)
Maximum aerial input VHF/S/UHF	: 180mV
Pull-in range colour sync	: +300Hz/-300Hz
Pull-in range horizontal sync	: +200Hz/-300Hz
Pull-in vertical sync	: +5Hz/-1Hz

VCR programs: PR0, 00, 50-59

EXT1



1 – Audio ⊖→ R (0.5V RMS ⩽ 1kΩ)
2 – Audio →⊖ R (0.5V RMS ⩾ 10kΩ)
3 – Audio ⊖→ L (0.5V RMS ⩽ 1kΩ)
4 – Audio ⊥
5 – Blue ⊥
6 – Audio →⊖ L (0.5V RMS ⩾ 10kΩ)
7 – Blue (0-2V DC/0,7V-PEAK : 75Ω)
8 – RC5 data 500-800mV$_{pp}$ + Status CVBS 0-2V (L) 10-12V (H)
9 – Green ⊥
10 – –
11 – Green (0-2V DC/0,7V-PEAK : 75Ω)
12 – –
13 – Red ⊥
14 – –
15 – Red (0-2V DC/0,7V-PEAK : 75Ω)
16 – RGB blanking 0-0.4V/75Ω (L) 1-3V/75Ω (H)
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1V$_{pp}$/75Ω)
20 – CVBS →⊖ (1V$_{pp}$/75Ω)
21 – Earth screen

EXT2

1 – Audio ⊖→ R (0.5V RMS ⩽ 1kΩ)
2 – Audio →⊖ R (0.5V RMS ⩾ 10kΩ)
3 – Audio ⊖→ L (0.5V RMS ⩽ 1kΩ)
4 – Audio ⊥
5 – –
6 – Audio →⊖ L (0.5V RMS ⩾ 10kΩ)
7 – –
8 – RC5 data 500-800mV$_{pp}$
9 – –
10 – –
11 – –
12 – –
13 – –
14 – –
15 – –
16 – –
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1V$_{pp}$/75Ω)
20 – CVBS →⊖ (1V$_{pp}$/75Ω)
21 – Earth screen

RECEIVER	HIFI	NATIONAL BRAND
EXT. 1,2 1, 2 – ⊥ 3 – Y: 1 V$_{pp}$ / 75 Ω SVHS IN 4 – C: 300 mV$_{pp}$/75 Ω ◎← L,R AUDIO IN 0,2-2 V RMS ⩾ 10 kΩ	**EXT. 1,2** 1, 2 – ⊥ 3 – Y: 1 V$_{pp}$ / 75 Ω SVHS IN 4 – C: 300 mV$_{pp}$/75 Ω ◎← L, R AUDIO IN 0,2-2 V RMS ⩾ 10 kΩ	**EXT. 1,2** 1, 2 – ⊥ 3 – Y: 1 V$_{pp}$ / 75 Ω SVHS IN 4 – C: 300 mV$_{pp}$/75 Ω ◎← L, R AUDIO IN 0,2-2 V RMS ⩾ 10 kΩ
1, 2 – ⊥ 3 – Y: 1 V$_{pp}$ / 75 Ω SVHS OUT 4 – C: 300 mV$_{pp}$/75 Ω ←◎ L,R AUDIO OUT 0,2-2 V RMS ⩾ 10 kΩ		
EXT. 3 1, 2 – ⊥ 3 – Y: 1 V$_{pp}$ / 75 Ω SVHS IN 4 – C: 300 mV$_{pp}$ /75 Ω ◎← L, R AUDIO IN 0,2-2 V RMS ⩾ 10 kΩ		
◎ ⊖→ R.L 0-2V RMS ⩽1500Ω ◎ 3,5 mm 🔈/🎧 32-2000Ω ⩾10mW	◎ ⊖→ R.L 0-2V RMS ⩽1500Ω ◎ 3,5 mm 🔈/🎧 32-2000Ω ⩾10mW	◎ ⊖→ R.L 0-2V RMS ⩽1500Ω ◎ 3,5 mm 🔈/🎧 32-2000Ω ⩾10mW
D2B Vcm: 2,5 V ± 10% VH : 0,12 V VL : 0,02 V RD : 100 kΩ	D2B Vcm: 2,5 V ± 10% VH : 0,12 V VL : 0,02 V RD : 100 kΩ	D2B Vcm: 2,5 V ± 10% VH : 0,12 V VL : 0,02 V RD : 100 kΩ

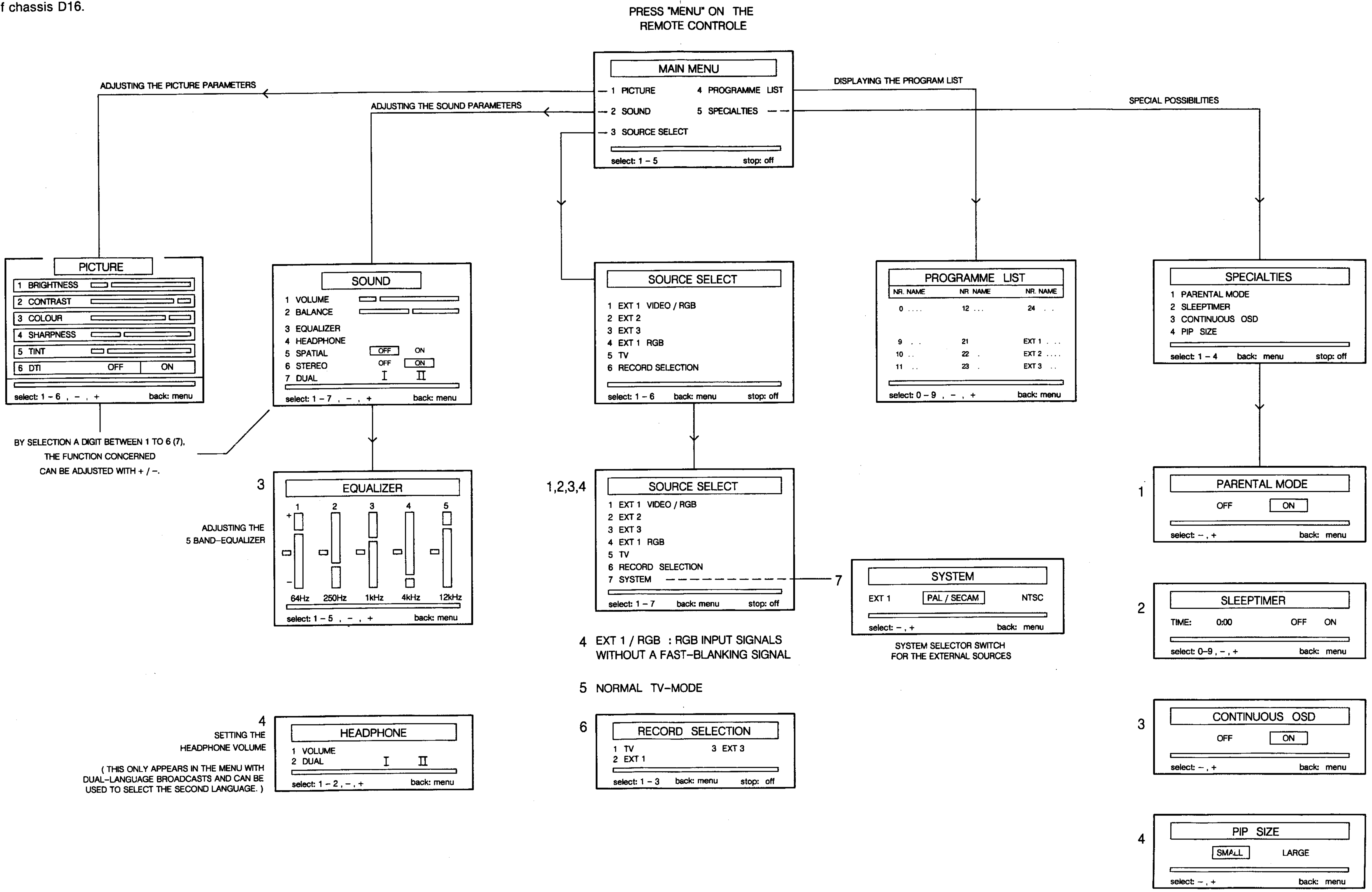
Tuning and control D16–II/D16–III

In sets fitted out with chassis D16–II/D16–III (AG2. and AG3.), most of the control functions and all tuning functions are incorporated in two menus.

In the diagrams below the various situations of the menus are shown. There are two different menus:
1) the installation menu (accessible with the "menu" key on the local keyboard)
2) the control menu (accessible with the "menu" key (◇) on the remote control (RC5910 or RC5915).

For a more detailed description of the menus, adjustments, tuning, etc., reference is made to the circuit description of chassis D16.

MAIN MENU


PRESS "MENU" ON THE REMOTE CONTROLE
MAIN MENU
1 PICTURE
2 SOUND
3 SOURCE SELECT
4 PROGRAMME LIST
5 SPECIALTIES
select: 1 – 5
stop: off
ADJUSTING THE PICTURE PARAMETERS
ADJUSTING THE SOUND PARAMETERS
DISPLAYING THE PROGRAM LIST
SPECIAL POSSIBILITIES
PICTURE
1 BRIGHTNESS
2 CONTRAST
3 COLOUR
4 SHARPNESS
5 TINT
6 DTI OFF ON
select: 1 – 6 , – , +
back: menu
BY SELECTION A DIGIT BETWEEN 1 TO 6 (7), THE FUNCTION CONCERNED CAN BE ADJUSTED WITH + / –.
SOUND
1 VOLUME
2 BALANCE
3 EQUALIZER
4 HEADPHONE
5 SPATIAL OFF ON
6 STEREO OFF ON
7 DUAL I II
select: 1 – 7 , – , +
back: menu
SOURCE SELECT
1 EXT 1 VIDEO / RGB
2 EXT 2
3 EXT 3
4 EXT 1 RGB
5 TV
6 RECORD SELECTION
select: 1 – 6
back: menu
stop: off
PROGRAMME LIST
NR. NAME
0 ....
9 . .
10 . .
11 . .
12 ...
21
22 .
23 .
24 . .
EXT 1 . . .
EXT 2 ....
EXT 3 . .
select: 0 – 9 , – , +
back: menu
SPECIALTIES
1 PARENTAL MODE
2 SLEEPTIMER
3 CONTINUOUS OSD
4 PIP SIZE
select: 1 – 4
back: menu
stop: off
3
ADJUSTING THE 5 BAND–EQUALIZER
EQUALIZER
1 2 3 4 5
+
–
64Hz 250Hz 1kHz 4kHz 12kHz
select: 1 – 5 , – , +
back: menu
1,2,3,4
SOURCE SELECT
1 EXT 1 VIDEO / RGB
2 EXT 2
3 EXT 3
4 EXT 1 RGB
5 TV
6 RECORD SELECTION
7 SYSTEM
select: 1 – 7
back: menu
stop: off
7
SYSTEM
EXT 1
PAL / SECAM
NTSC
select: – , +
back: menu
SYSTEM SELECTOR SWITCH FOR THE EXTERNAL SOURCES
4 EXT 1 / RGB : RGB INPUT SIGNALS WITHOUT A FAST–BLANKING SIGNAL
5 NORMAL TV–MODE
1
PARENTAL MODE
OFF ON
select: – , +
back: menu
2
SLEEPTIMER
TIME: 0:00 OFF ON
select: 0–9 , – , +
back: menu
3
CONTINUOUS OSD
OFF ON
select: – , +
back: menu
4
SETTING THE HEADPHONE VOLUME
(THIS ONLY APPEARS IN THE MENU WITH DUAL–LANGUAGE BROADCASTS AND CAN BE USED TO SELECT THE SECOND LANGUAGE.)
HEADPHONE
1 VOLUME
2 DUAL I II
select: 1 – 2 , – , +
back: menu
6
RECORD SELECTION
1 TV
2 EXT 1
3 EXT 3
select: 1 – 3
back: menu
stop: off
4
PIP SIZE
SMALL LARGE
select: – , +
back: menu

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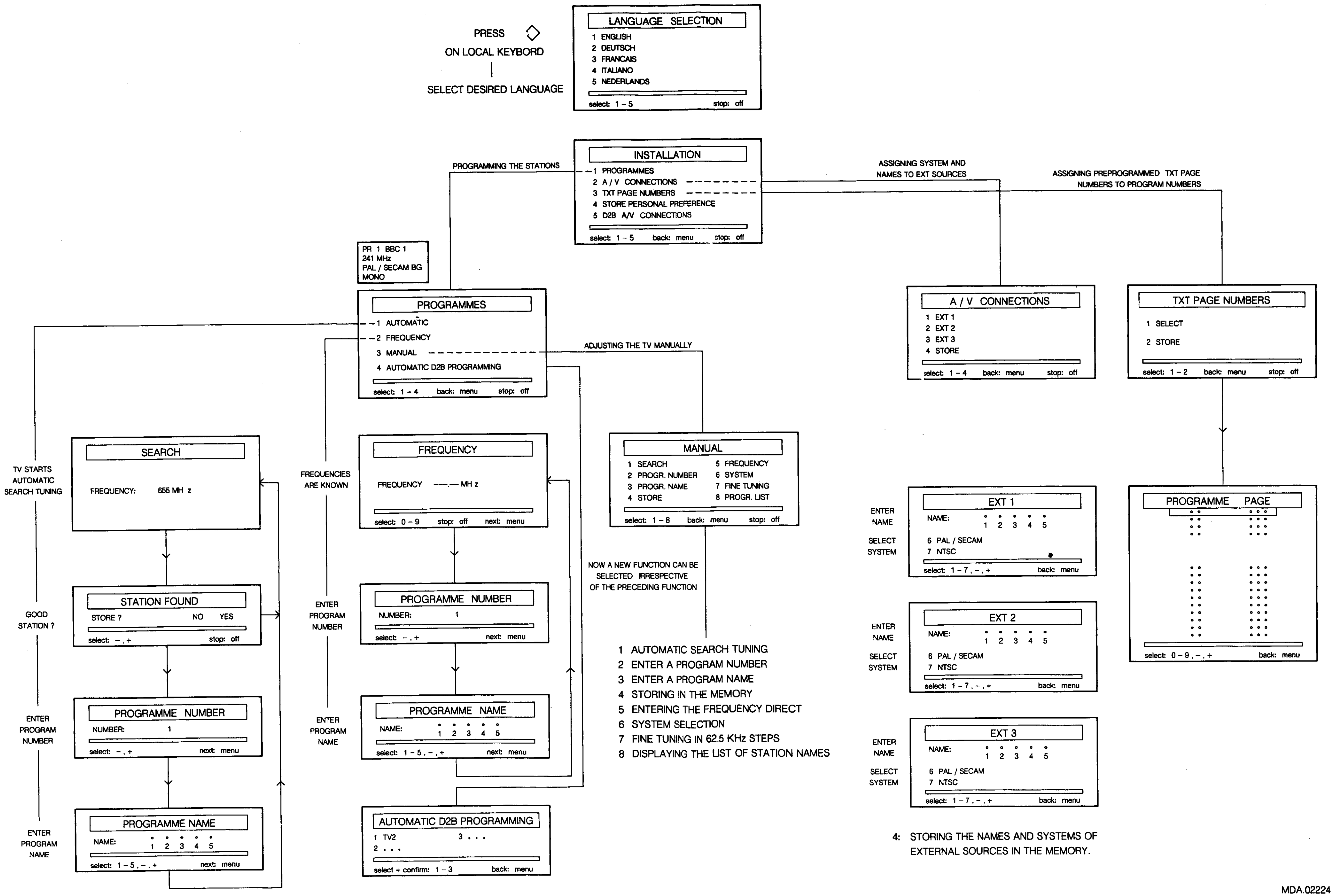
INSTALLATION


PRESS ◇
ON LOCAL KEYBORD
SELECT DESIRED LANGUAGE
LANGUAGE SELECTION
1 ENGLISH
2 DEUTSCH
3 FRANCAIS
4 ITALIANO
5 NEDERLANDS
select: 1 – 5
stop: off
INSTALLATION
1 PROGRAMMES
2 A / V CONNECTIONS
3 TXT PAGE NUMBERS
4 STORE PERSONAL PREFERENCE
5 D2B A/V CONNECTIONS
select: 1 – 5
back: menu
stop: off
PROGRAMMING THE STATIONS
ASSIGNING SYSTEM AND NAMES TO EXT SOURCES
ASSIGNING PREPROGRAMMED TXT PAGE NUMBERS TO PROGRAM NUMBERS
PR 1 BBC 1
241 MHz
PAL / SECAM BG
MONO
PROGRAMMES
1 AUTOMATIC
2 FREQUENCY
3 MANUAL
4 AUTOMATIC D2B PROGRAMMING
select: 1 – 4
back: menu
stop: off
ADJUSTING THE TV MANUALLY
TV STARTS AUTOMATIC SEARCH TUNING
SEARCH
FREQUENCY: 655 MH z
GOOD STATION ?
STATION FOUND
STORE ? NO YES
select: – , +
stop: off
ENTER PROGRAM NUMBER
PROGRAMME NUMBER
NUMBER: 1
select: – , +
next: menu
ENTER PROGRAM NAME
PROGRAMME NAME
NAME: 1 2 3 4 5
select: 1 – 5 , – , +
next: menu
FREQUENCIES ARE KNOWN
FREQUENCY
FREQUENCY ––.–– MH z
select: 0 – 9
stop: off
next: menu
ENTER PROGRAM NUMBER
PROGRAMME NUMBER
NUMBER: 1
select: – , +
next: menu
ENTER PROGRAM NAME
PROGRAMME NAME
NAME: 1 2 3 4 5
select: 1 – 5 , – , +
next: menu
AUTOMATIC D2B PROGRAMMING
1 TV2
2 . . .
3 . . .
select + confirm: 1 – 3
back: menu
MANUAL
1 SEARCH
2 PROGR. NUMBER
3 PROGR. NAME
4 STORE
5 FREQUENCY
6 SYSTEM
7 FINE TUNING
8 PROGR. LIST
select: 1 – 8
back: menu
stop: off
A / V CONNECTIONS
1 EXT 1
2 EXT 2
3 EXT 3
4 STORE
select: 1 – 4
back: menu
stop: off
ENTER NAME
SELECT SYSTEM
EXT 1
NAME: 1 2 3 4 5
6 PAL / SECAM
7 NTSC
select: 1 – 7 , – , +
back: menu
ENTER NAME
SELECT SYSTEM
EXT 2
NAME: 1 2 3 4 5
6 PAL / SECAM
7 NTSC
select: 1 – 7 , – , +
back: menu
ENTER NAME
SELECT SYSTEM
EXT 3
NAME: 1 2 3 4 5
6 PAL / SECAM
7 NTSC
select: 1 – 7 , – , +
back: menu
TXT PAGE NUMBERS
1 SELECT
2 STORE
select: 1 – 2
back: menu
stop: off
PROGRAMME PAGE
select: 0 – 9 , – , +
back: menu
MDA.02224
T07–941

NOW A NEW FUNCTION CAN BE SELECTED IRRESPECTIVE OF THE PRECEDING FUNCTION

1 AUTOMATIC SEARCH TUNING
2 ENTER A PROGRAM NUMBER
3 ENTER A PROGRAM NAME
4 STORING IN THE MEMORY
5 ENTERING THE FREQUENCY DIRECT
6 SYSTEM SELECTION
7 FINE TUNING IN 62.5 KHz STEPS
8 DISPLAYING THE LIST OF STATION NAMES

4: STORING THE NAMES AND SYSTEMS OF EXTERNAL SOURCES IN THE MEMORY.

WARNINGS

1. Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used.
   Safety components are marked by the symbol ⚠
2. To prevent damage to ICs and transistors any flash–over of the EHT should be avoided.
   To prevent damage to the picture tube the method, indicated in Fig. 1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC–V). Discharge until the reading of the meter is 0V (after approx. 30s).
3. **ESD** ⚠
   All ICs and many other semi–conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically.
   When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
   Keep components and tools on the same potential.
4. A set to be repaired should always be connected to the mains via a suitable isolating transformer.
5. Proceed with care when testing the EHT section and the picture tube.
6. Never replace any modules or any other parts while the set is switched on.
7. Wear safety goggles during replacement of the picture tube.
8. Use plastic instead of metal alignment tools.
   This in order to preclude short–circuit or to prevent a specific circuit from being rendered unstable.

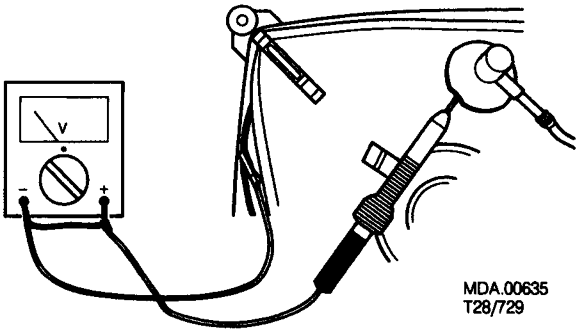


Fig. 1

REMARKS

1. The direct voltages and oscillograms ought to be measured relative to the tuner mass.
2. The direct voltages and oscillograms mentioned in the diagrams ought to be measured in the Service Default Mode with a colour bar signal and stereo sound (L: 3kHz; R: 1 kHz, unless stated otherwise) and the picture carrier at 475.25 MHz.

   Service Default Mode:

   The service default mode is a fixed, defined state the set can be brought in:
   The definitions are as follows:
   - all controls in mid–position
   - surround sound/spatial off
   - stereo/ DTI on
   - tuned to 475.25 MHz – PAL / SECAM BG

   To switch on the service default mode, press the "volume+" and "program+" keys simultaneously and switch the set on with the mains switch.
   The service default mode can only be left by switching the set into stand–by (⏻) with the remote control.
   When the set is in the service default mode, all LED's will light up.
   During the service default mode, the set accepts all commands via the remote control or the keyboard.
   When the set is switched on or off with the mains switch, it stays in the service default mode.
3. The oscillograms and direct voltages have been measured with (⌉⌈) and without antenna signal (✗) where necessary. Voltages in the supply section have been measured both during normal operation (⏽) and in stand–by (⏻). These values are indicated by means of the corresponding symbols.
4. The picture tube board is provided with printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the aquadag coating.
5. The semiconductors, which are mentioned in the circuit diagram and in the parts lists, are fully exchangeable per position with the semiconductors in the set, irrespective of the type designation on these semiconductors.
6. Connectors used for the modules (board to board) are of the gold–plated type and may only be replaced by the same type.
7. In case of faultfinding and/or repairs on the PIP module, one can increase the accessibility of the circuit and the components by making use of extension cards.

   5–fold : 4822 395 30261
   10–fold : 4822 395 30257

CENTRAL REPAIR PROCEDURE DIGITAL VIDEO PANEL (1510) 4822 212 23271

There is a central repair procedure for the digital video panel (1510). In exchange for a defective panel, a well functioning panel can be obtained at a reduced price via the usual channels.

Service codenumber:
AG20; AG30-4822 212 23399
AG21; AG31-4822 212 23424

8. Servicing of SMDs (Surface Mounted Devices)

8.1 General cautions on handling and storage.

a) Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
b) Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
As a result the capacitance or resistance value of the SMDs may be affected.
c) Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

8.2 Removal of SMDs

a) Heat the solder (for 2–3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 2a) or
b) While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 2b).
c) Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 2c).

Caution on removal:

a) When handling the soldering iron, use suitable pressure and be careful.
b) When removing the chip, do not use undue force with the pair of tweezers.
c) The soldering iron to be used (approx. 30 W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) The chip, once removed, must **never** be used again.

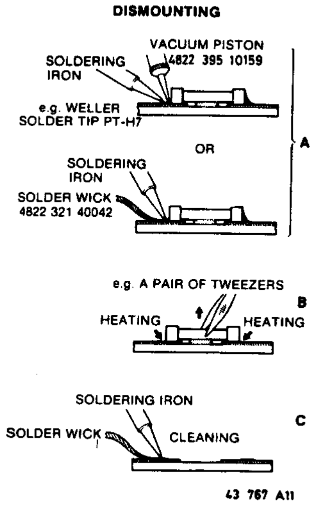

DISMOUNTING
VACUUM PISTON
4822 395 10159
SOLDERING IRON
e.g. WELLER SOLDER TIP PT-H7
OR
SOLDERING IRON
SOLDER WICK
4822 321 40042
A
e.g. A PAIR OF TWEEZERS
HEATING
HEATING
B
SOLDERING IRON
SOLDER WICK
CLEANING
C
43 767 A11

Fig. 2

8.3 Attachment of SMDs

a) Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 3a).
b) Next complete the soldering of the terminals of the component (see Fig. 3b).

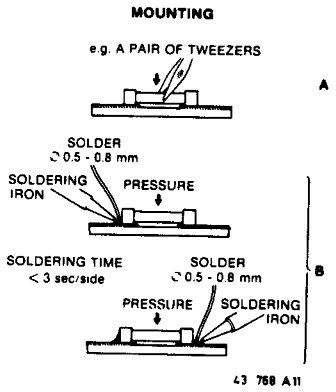

MOUNTING
e.g. A PAIR OF TWEEZERS
A
SOLDER
⌀ 0.5 - 0.8 mm
SOLDERING IRON
PRESSURE
SOLDERING TIME
< 3 sec/side
SOLDER
⌀ 0.5 - 0.8 mm
B
PRESSURE
SOLDERING IRON
43 768 A11

Fig. 3

Caution on attachment:

a) When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
b) Keep the SMD's body in contact with the printed board when soldering.
c) The soldering iron to be used (approx. 30 W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) Soldering should not be done outside the solder land.
e) Soldering flux (of rosin) may be used but should not be acidic.
f) After soldering, let the SMD cool down gradually at room temperature.
g) The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4).

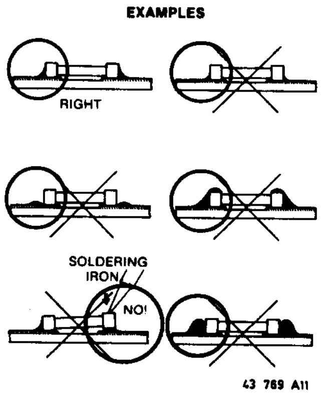

EXAMPLES
RIGHT
SOLDERING IRON
NO!
43 769 A11

Fig. 4

MECHANICAL INSTRUCTIONS

1. The service position of the chassis

Remove the screws in the rear cover (10 screws HiFi, 8 screws Receiver, 8 screws National Brand, 33 INCH no screws) and remove the rear cover.
Take all cables out of their guides.
Disconnect the degaussing cable(s) from the chassis.
Unlock the fixing lugs A on both sides of the chassis (figure 5).
Now the chassis can be pushed out of the rails and be placed behind the set.
After unlocking the fixing lugs B (figure 6), the monocarrier board can be pivoted upwards (figure 7a).
By tilting the chassis over to the left and placing it on the left side, you can reach the second service position (figure 7b).

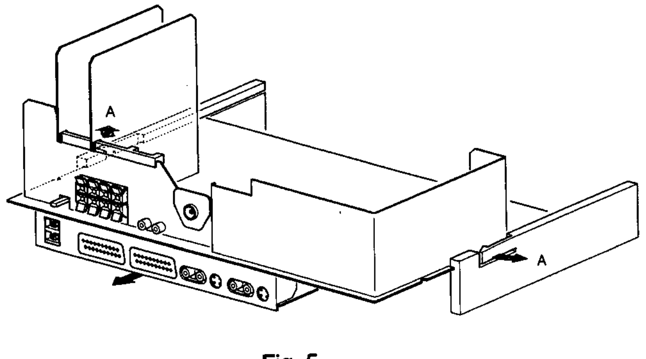


Fig. 5

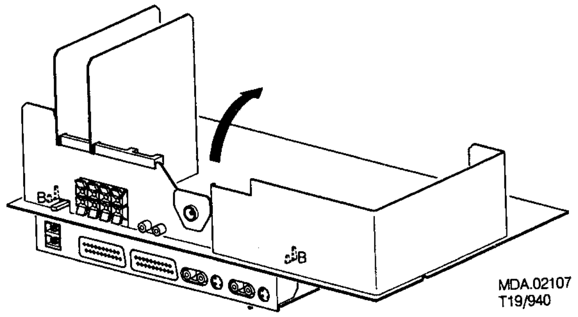


Fig. 6

1.1 NICAM sets

After unlocking the fixing lugs D, you can take the NICAM decoder out of the holder (figure 8).
The circuit board can be placed on the left of the chassis.

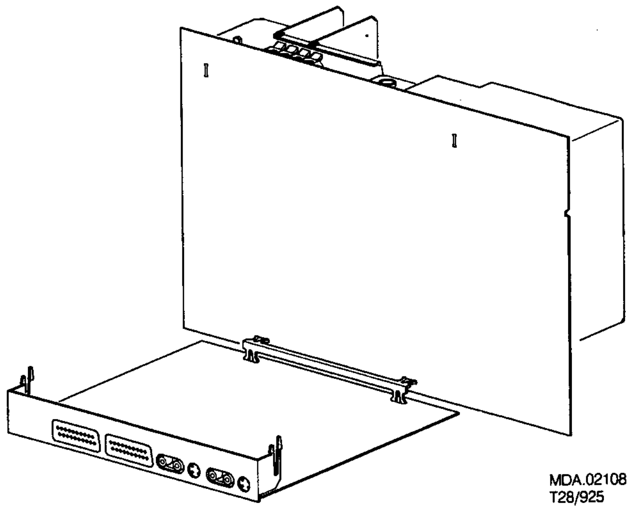


Fig. 7a

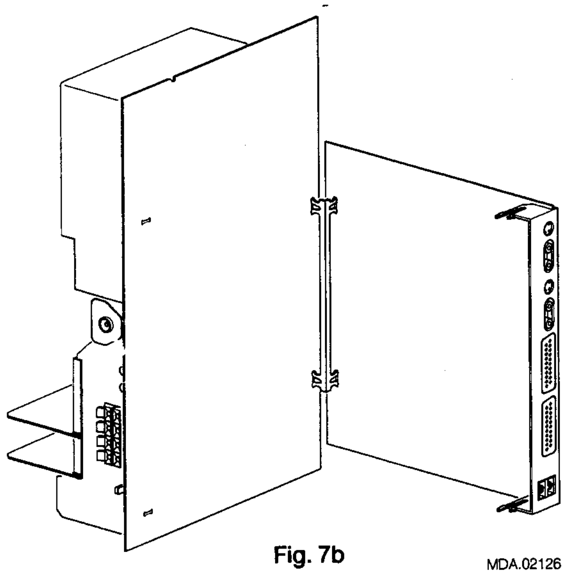


Fig. 7b

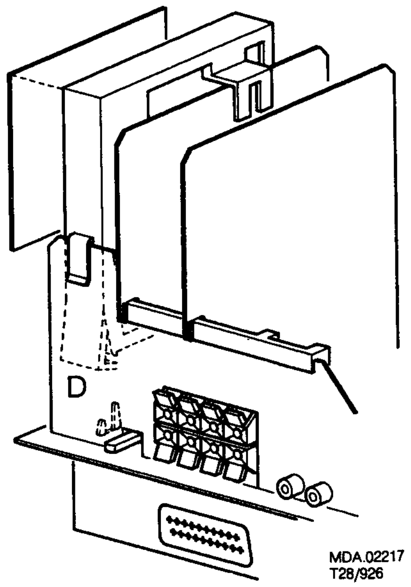


Fig. 8

---

2. Removing the circuit panels

2.1 Receiver

First remove the cover plate (A) and then the screw (B) on the front of the set (figure 9a).
Move the front to the right (± 1 cm) and take it out by pulling it forward.

Now the mains switch panel, the headphone panel and the control panel can be removed by pulling them forward.

Remove the screw (C) of the keyboard (figure 9b) and take the keyboard out of the snap connection.

2.2 HiFi sets

Remove the control panel by unlocking the fixing lug via the rear of the set (figure 10a) and pulling the whole forward.
The keyboard and the control panel can be taken out of the holder after the snap connections are unlocked.

Remove the fixing bracket of the mains switch panel on the rear of the set (figure 10b).
The circuit board can now be pushed out of its guiding.

Push the headphone cover plate out of the cabinet from the rear (figure 10c).
The headphone panel can now be removed by pulling it forward.

The loudspeaker grilles can be removed by pulling them forward.
Pay attention to the earth cable for ESD protection.

2.3 National Brand

Remove the cap and the screw on the front of the set (figure 11a).
Now move the front to the left (± 1 cm) and remove the front by pulling it forward.

Now the mains switch panel and the control panel can be removed by pulling them forward.

The keyboard is clamped behind the window and can be removed by unlocking lug C (figure 11b).

The headphone panel can be pushed out of its guide at the rear of the set.

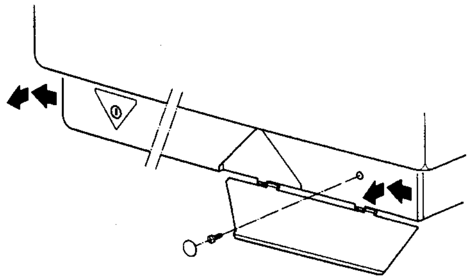


Fig. 11a

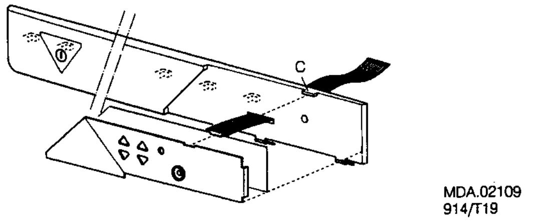


Fig. 11b

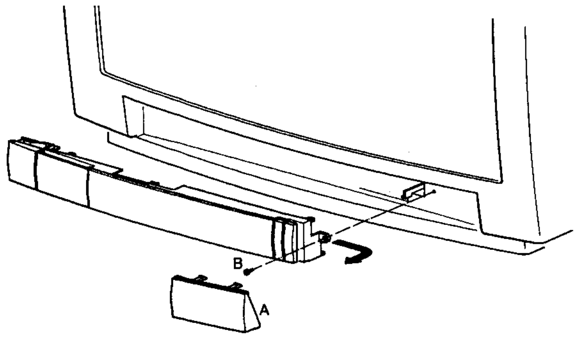


Fig. 9a

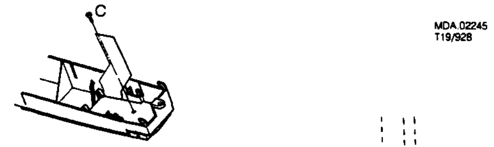


Fig. 9b

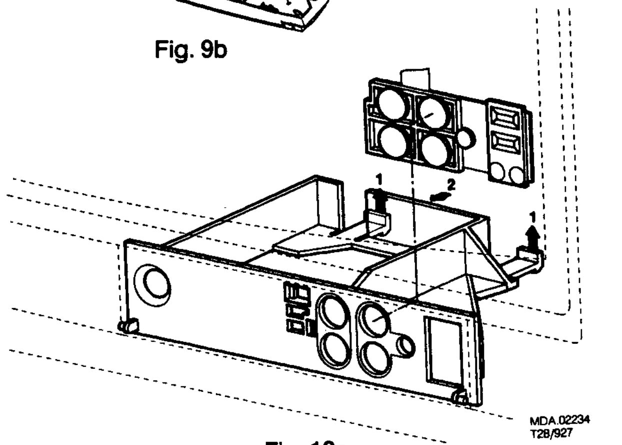


Fig. 10a

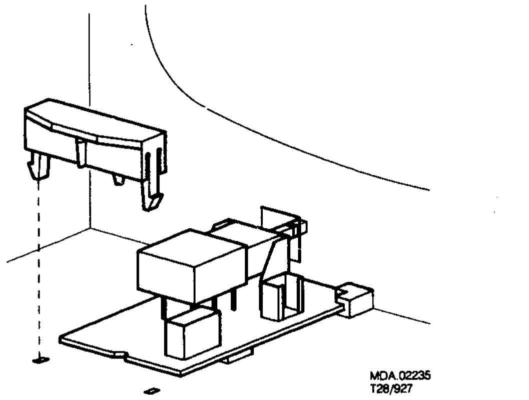


Fig. 10b

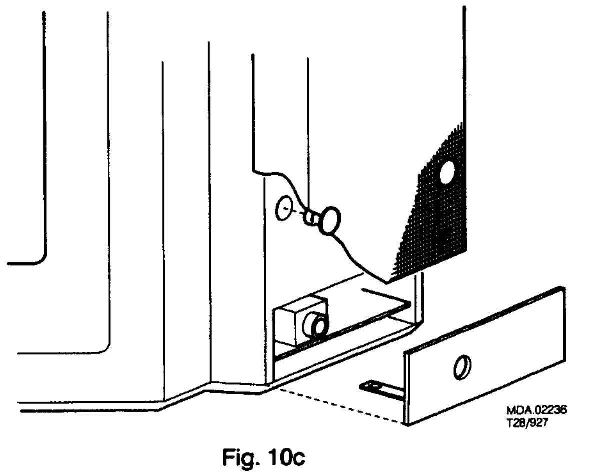
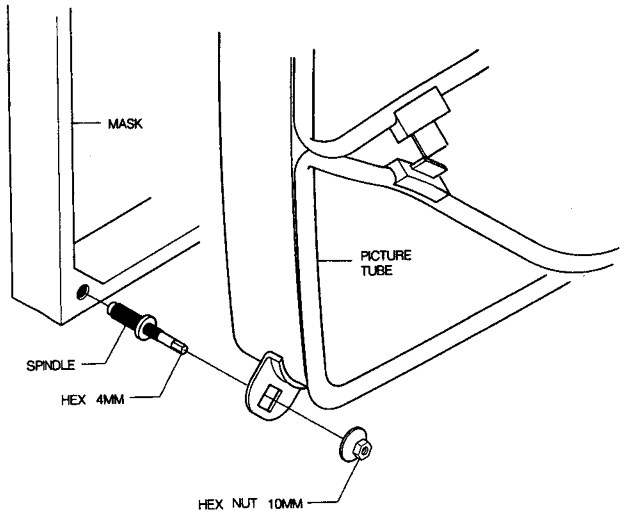


Fig. 10c

3. Flat square picture tube fixation.

Demounting the picture tube:
Loosen the nuts by turning them with a box spanner hexagon (10 mm) **clockwise**, (see Fig. 12).

Mounting the picture tube:
Turn the spindles **counterclockwise** into the mask with a box spanner hexagon (4 mm).
Locate the picture tube in the mask. The easiest way is placing the cabinet with the front facing down.
Position the picture tube in the middle of the mask.
Turn the spindles **clockwise** until the nut can be fixed onto the spindle.
Turn the nut **counterclockwise** finger-tight against the picture tube fixation.
Turn the spindle **clockwise** until the whole has been fixed tightly (the nut must not turn any more).

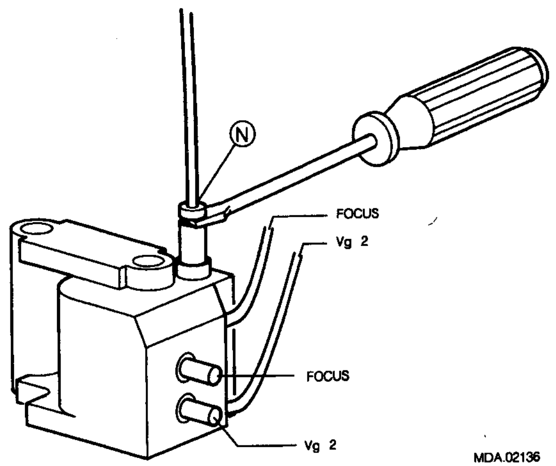


EVA.00608
T-27/841

Fig. 12

4. Removing the EHT cable.

After prizing up the clamping rings N with a screwdriver or side-cutting pliers, the EHT cable may be pulled off the line output transformer (see fig. 13).
When refitting the cable, first press the clamping ring onto the transformer until a click is heard; after this the cable may be pressed home.
Make sure that the cable is pressed down well.



MDA.02136
T28/915

Fig. 13

SURVEY SUPPLY VOLTAGES
TABLEAU TENSION D'ALIMENTATION
OVERZICHT VOEDINGSSPANNINGEN
TAVOLA VOLTAGGIO DI ALIMENTAZIONE
TABLA TENSIÓN DE ALIMENTACIÓN
UEBERSICHT VERSORGUNGSSPANNUNGEN

	+5	+5 ⏻	–8	–20	+20	+141	+11R	+13R	–13R	+200
SOPS TS7315	X									
SOPS 3–IC7327		X								
SOPS D6359			X							
SOPS D6355				X						
SOPS D6350					X					
SOPS L5331						X				
LINE C2512							X			
LINE C2527								X		
LINE C2507									X	
LINE D6492										X
DIGIBOARD U1510										
– 3–4M19	X									
– 9M20		X								
– 10M18								X		
PIP PANEL U1530										
– 5M17	X									
– 8M17									X	
NICAM PANEL U1535										
– 4N25	X									
– 1N25		X								
– 6N25			X							
– 5N25									X	
– 1N22									X	
QPSK U1612										
– 6-1612	X									
– 9-1612								X		
TUNER U1600										
– L5602		X								
– R6305								X		
IF UNIT U1611										
– R3612								X		
FM DEMODULATOR										
– R3240								X		
SOURCE SELECT U1001										
– 2S10	X									
– 6–7A08	X									
– 1S05		X								
– 3S10			X							
– 1A08								X		
– 1S10								X		
CONT. PANEL U1520										
– 1C07	X									
– 4C06		X								
PICT. TUBE PAN. U1003										
– 3T35								X		
– 2T28										X

ELECTRICAL INSTRUCTIONS

1. Unless stated otherwise, the supply voltage used is:
   220 - 240 V ± 10%
   50 - 60 Hz ± 5%

- Warming-up time ≈ 20 minutes
- Voltages, oscillograms measured relative to tuner mass. **Never** use the heat sinks as mass.
- Adjustment sequence: 1) modules and units
  2) VG2/Focus
  3) geometry

A. Electrical adjustments on the chassis (see figure 14)

1. +141 V supply voltage

- Apply the mains voltage via an isolating transformer.
- Connect a voltmeter across C2332.
- Adjust R3344 for a supply voltage of +141V ± 0.5 V.

2. +5.25 V supply voltage

- Apply the mains voltage via an isolating transformer.
- Connect a voltmeter across C2315.
- Adjust R3316 for a voltage of 5.25V ± 0.05V.

Check: $U_{C2351} = 20V \pm 0.5\ V$
$U_{C2352} = -\ 20V \pm 0.5V$
$U_{C2330} = 5V \pm 0.25V$

3. FM demodulators

a. 5.5 MHz; 6.0 MHz (PAL I) reference circuit
- Connect a generator signal with a 2 carrier stereo signal (position "stereo").
- Choose 1 kHz for the right-hand channel and 3 kHz for the left-hand channel.
- Connect an oscilloscope to pin 1 of euroconnector EXT1.
- Adjust L5229 for maximum amplitude at a frequency of 1 kHz.

b. 5.74 MHz reference circuit
- Connect a generator signal with a 2 carrier stereo signal (position "stereo").
- Choose 1 kHz for the right-hand channel and 3 kHz for the left-hand channel.
- Connect an oscilloscope to pin 3 of euroconnector EXT1.
- Adjust L5224 for maximum amplitude at a frequency of 3 kHz.

c. Channel separation
- Connect a generator signal with a 2 carrier stereo signal (position "stereo").
- Choose 1 kHz for the right-hand channel and 3 kHz for the left-hand channel.
- Connect an oscilloscope to pin 3 of euroconnector EXT1.
- Adjust R3442 for optimal channel separation.

4. Station identification

- Connect pin 5-IC7600 to ground.
- Connect a frequency counter to pin 15-IC7600.
- Adjust R3641 for a frequency of 15625 Hz.

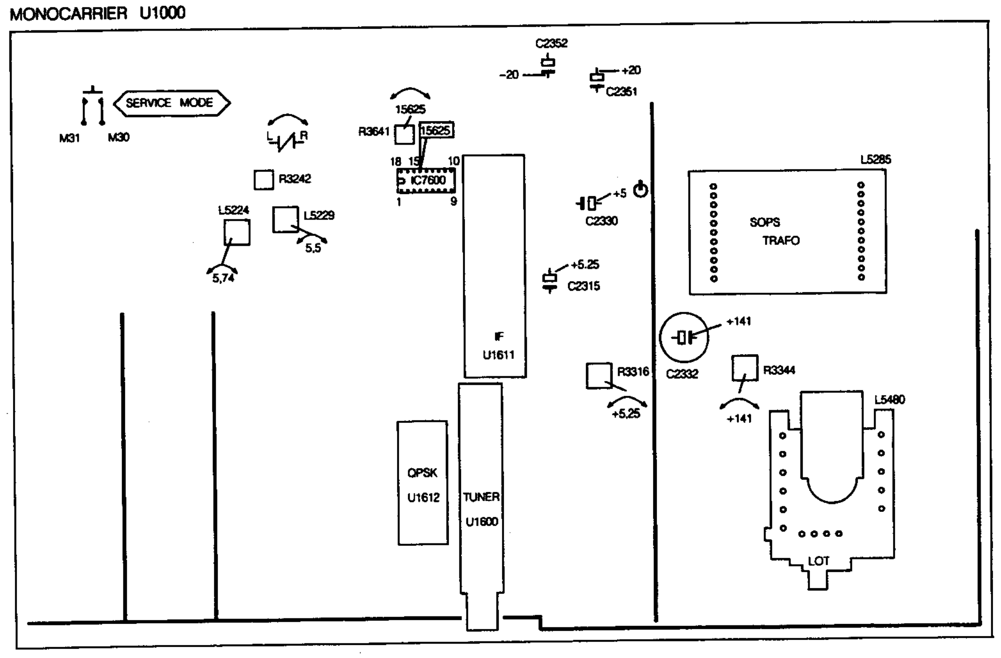

MONOCARRIER U1000
SERVICE MODE
M31
M30
L
R
R3242
L5224
L5229
5,74
5,5
15625
R3641
15625
18
15
10
IC7600
1
9
C2352
-20
+20
C2351
+5
C2330
+5.25
C2315
IF
U1611
QPSK
U1612
TUNER
U1600
L5285
SOPS
TRAFO
+141
C2332
R3316
+5,25
R3344
+141
L5480
LOT
PRS.05870
T02/938

Fig. 14

B. Electrical adjustments on the source select panel (see fig.15)

1. Pilot tone (54.6 Hz identification)

- Connect a generator signal with a 2 carrier stereo signal (position "stereo").
- Choose 1 kHz for the right-hand channel and 3 kHz for the left-hand channel.
- Connect an oscilloscope to pin 8-IC7430.
- Adjust L5384 for maximum amplitude.

2. SVHS status

- Connect a SVHS-Y signal to pin 3 of connector PL09 (SVHS in).
  One can also use a CVBS signal (grey scale) for this. In that case the colour subcarrier should be disabled.
- Connect a frequency counter to the junction of L5272, C2272, D6272.
- Adjust L5272 for a frequency of 15625 Hz ± 40 Hz.

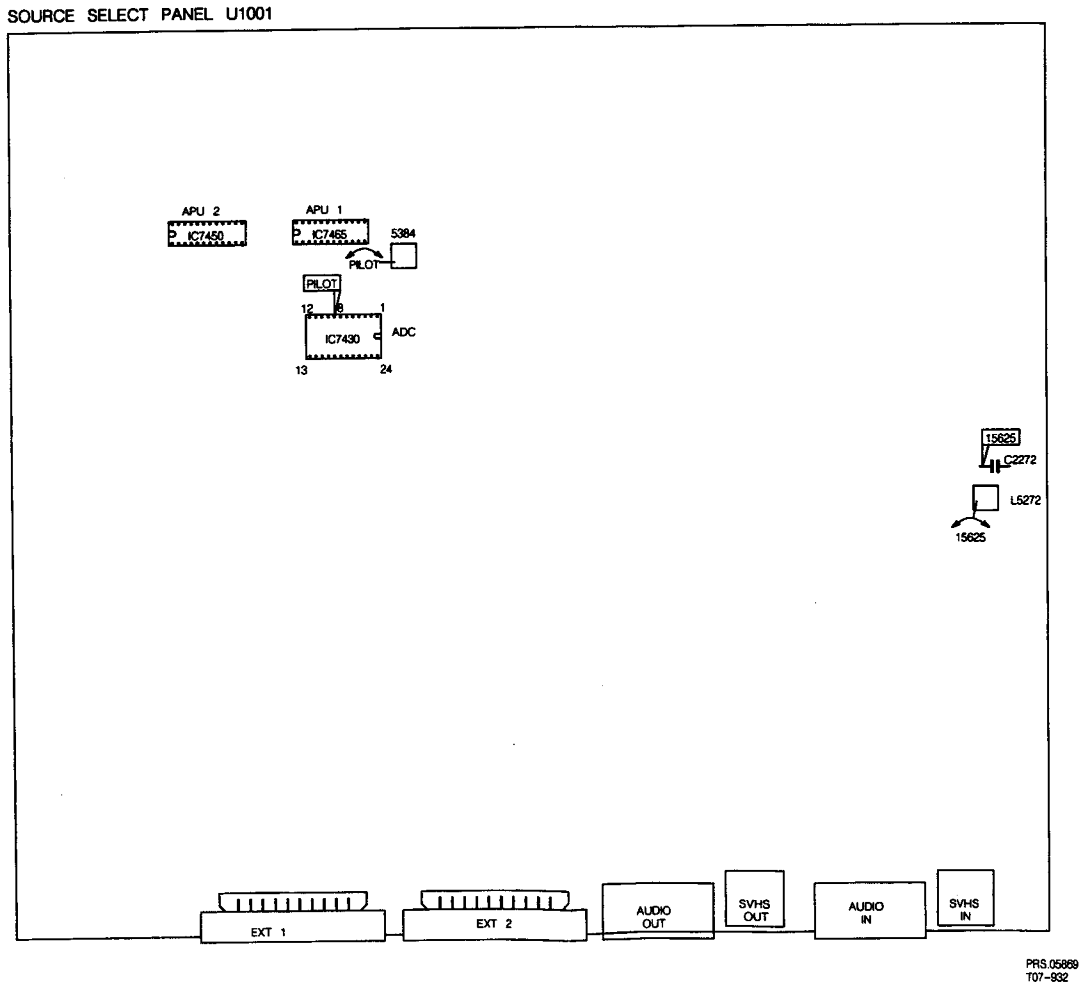

SOURCE SELECT PANEL U1001
APU 2
IC7450
APU 1
IC7465
5384
PILOT
PILOT
12
8
1
IC7430
ADC
13
24
15625
C2272
L5272
15625
EXT 1
EXT 2
AUDIO OUT
SVHS OUT
AUDIO IN
SVHS IN
PRS.05869
T07-932

Fig. 15

C. Adjustments of geometry parameters and options

The system software is situated in a MASK-ROM or in an EPROM. The version determines the table of corresponding electrical adjustments and option codes. The type and change data of the (EP)ROM can also be determined in the service mode. If the service mode is switched on, the version and change data appear at the top of the screen.

Type	**Date**	**Table:**
Mask-ROM V1 REC	890707	1
Mask-ROM V1 HIFI	890705	1
EPROM red 3	890705	1
EPROM bleu 3	890705	1
EPROM bleu 4	890926	2
EPROM bleu 5	891017	2
EPROM bleu 6	891025	3
Mask-ROM V2 Base	891025	3
Mask-ROM V2 D2B	891025	3
EPROM bleu 7	891129	3
EPROM bleu 8	891219	3
EPROM red 8 (D2B)	891219	3
EPROM red 11	900608	3

Service-codenumber software:
Until EPROM red 11 4822 209 63597

Memories with software of an earlier change date may always be replaced by software of a later change date.

To select the service mode, the contacts M30 and M31 on the monocarrier should be short-circuited for a moment. The service adjustments can be carried out by means of a remote control (RC5910 or RC5915).

Control functions:

-/--	(one-/two-digit entry): next adjustment
🔇	(mute): previous adjustment (not always possible)
- vol +	(volume +/-): increasing/decreasing value
PP	(personal preference): storing in the memory
▢	(TV mode): exiting the service mode
menu on/off	: constrast adjustment -/+
menu -/+	: brightness adjustment -/+

Before carring out the adjustments, allow the set to warm up for 20 minutes.

During the adjustments, a correct (PAL) test signal from a pattern generator (PM5515/PM5518) should be suppolied.

Remarks:

- Apply for all adjustments a maximum contrast and a nominal brightness unless otherwise stated.
- The adjustment SVHS luminace delay is only possible if a SVHS source has been selected, on which a SVHS signal is present. Therfore it is necessary to leave the service mode and to select a SVHS source, again entering the service mode and proceed to the adjustment SVHS luminance delay. The indication "SVHS del xx" will autometically appear on the screen.
- The adjustment "PIP adr. xxx" is only possible when the option code "Siemens PIP" is active.
- The vertical adjustments can only be stored if the S correction has been adjusted.
- The horizontal adjustments can only be stored if the trapezium adjustment has been set.
- All adjustments have to be made for one system only (e.g. for PAL or SECAM), with the exception of:
  1) the variable Y delay (separate adjustment for PAL/SECAM and NTSC).
  2) the picture tube cut-off points must be adjusted once with a CVBS input signal (PAL, SECAM or NTSC) and once with an RGB input signal.

TABLE 1

ADJUSTMENTS

option 1
option 2
VG2 adjustment
vertical shift
vertical amplitude
S correction
variable Y delay
horizontal centring
horizontal amplitude
parabola 1
parabola 2
trapezium
voltage-controlled oscillator
cut-off points RGB
white D RGB
SVHS luminance delay

OPTION 1 (NON ECO)

0 multi Europe (BGLM)
1 only UHF
2 French multi (BGLL'I)
4 PIP
8 MAC
16 SAT
32 BG alone
64 System DK
128 EXT3

OPTION 2 (NON ECO)

0 TXT,NICAM,FLOF
1 Siemens PIP
2 TPU 2732
4 No NICAM
8 diagnostics
16 33"
32 No TOP
64 extended TXT
128 SPAIN

OPTION 1 (ECO)

0 multi Europe (BGLM)
1 only UHF
2 French multi (BGLL'I)
4 PIP
8 res.
16 res.
32 BG alone
64 System DK
128 No SVHS

OPTION 2 (ECO)

0 TXT,NICAM,FLOF
1 No TXT
2 TPU 2732
4 No NICAM
8 diagnostics
16 33"
32 No TOP
64 extended TXT
128 res.

TABLE 2

ADJUSTMENTS

option 1
option 2
VG2 adjustment
vertical shift
vertical amplitude
S correction
variable Y delay
horizontal centring
horizontal amplitude
parabola 1
parabola 2
trapezium
voltage-controlled
oscillator
cut-off points RGB
white D RGB
SVHS luminance delay
PIP addr 096-PIP val=002
PIP addr 097-PIP val=008
PIP addr 098-PIP val=089
PIP addr 099-PIP val=217
PIP addr 100-PIP val=169
PIP addr 101-PIP val=032
PIP addr 102-PIP val=001

only valid for Siemens PIP (without thick-film unit). For a PIP module with thick-film unit the value 000 should be filled in.

OPTION 1

0 multi Europe (BGML)
1 only UHF
2 French multi (BGLL'I)
4 PIP
8 MAC
16 SAT
32 BG alone
64 system DK
128 EXT3

OPTION 2

0 TXT, NICAM, FLOF
1 Siemens PIP
2 TPU 2732
4 No NICAM
8 diagnostics
16 33"
32 No TOP
64 extended TXT
128 Spain

TABLE 3

ADJUSTMENTS

option 1
option 2
VG2 adjustment
vertical shift
vertical amplitude
S correction
variable Y delay
horizontal centring
horizontal amplitude
parabola 1
parabola 2
trapezium
voltage-controlled
oscillator
cut-off points RGB
white D RGB
SVHS luminance delay
SYNC
PIP addr 096-PIP val=002
PIP addr 097-PIP val=008
PIP addr 098-PIP val=089
PIP addr 099-PIP val=217
PIP addr 100-PIP val=169
PIP addr 101-PIP val=032
PIP addr 102-PIP val=001

only valid for Siemens PIP (without thick-film unit). For a PIP module with thick-film unit the value 000 should be filled in.

OPTION 1

0 multi Europe (BGML)
1 only UHF
2 French multi (BGLL'I)
4 PIP
8 MAC
16 SAT
32 BG alone
64 system DK
128 EXT3

OPTION 2

0 TXT, NICAM, FLOF
1 Siemens PIP
2 TPU 2732
4 No NICAM
8 diagnostics
16 33"
32 No TOP
64 extended TXT
128 Spain
128 Spain

1. Options

The options are accommodated under 2 addresses: option 1 and option 2.
The options are represented by a number between 0 and 255.
Options 1 and 2 are subdivided as follows:

A combination is also possible, for example:

* European multi-receiver
* with PIP } OPTION 1
* with system D.K.

* no teletext } OPTION 2
* no NICAM

Means: OPTION 1 = 0 + 4 + 64 + 68
OPTION 2 = 1 + 4 + 5

However, these are software adaptions in the set. So if the set has to be fitted out for these features, the necessary hardware adaptions should be introduced as well.

2. Adjustments (see fig.16)

Some adjustments can influence one another. As a result, it may sometimes be necessary to repeat a few adjustments.

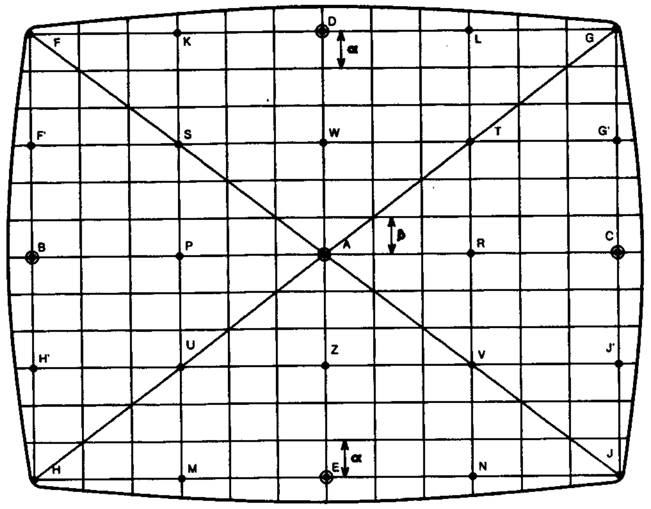


Fig. 16

PRS.05868
T02/913

- Vertical shift
  - indication on the screen: V SH
  - test signal: ⊞
  - adjust until the position of the top line (F,G) is right (test lines must not be visible)
- Vertical amplitude
  - indication on the screen: V AMP
  - test signal: ⊞
  - Adjust until the vertical amplitude is correct. The distance between the top line (F,G) and the top of the screen should be equal to the distance between the bottom line (H,J) and the bottom of the screen.
- S correction
  - indication on the screen: S–cor
  - test signal: ▦
  - Adjust until the squares at the top/bottom of the screen (α) are just as big in vertical direction as the ones in the middle of the screen (β).
- Variable Y delay
  - indication on the screen: Y del
  - test signal: colour bar
  - Adjust until the luminance signal covers the colour signal exactly.
    Attention: If no colour appears on the screen, it is possible that the VCO adjustment should be done first. After the VCO adjustment, return to the variable Y delay.
- Horizontal shift
  - indication on the screen: h sh
  - test signal: ⊕
  - adjust the vertical centre line (D,E) in the middle of the picture.
- Horizontal amplitude
  - indication on the screen: h amp
  - test signal: ⊕
  - adjust until the horizontal amplitude is good (i.e. the circle is round)
- Parabola 1
  - indication on the screen: par 1
  - test signal: ▦
  - adjust until FF' and HH' are in line
- Parabola 2
  - indication on the screen: par 2
  - test signal: ▦
  - adjust until F,H are in line
- Trapezium
  - indication on the screen: trap
  - test signal: ▦
  - adjust until the FH line is vertical
- VCO
  - indication on the screen: VCO
  - test signal: colour bar
  - adjust until the colours on the screen are as still as possible
- VG2 setting
  - indication on the screen: G2
  - test signal: black picture
  - adjust the VG2 potentiometer, which is mounted on the rear of the line transformer, until the indication "OK" appears on the screen
- Cut–off R, G, B
  - indication on the screen: CO ref R
    CO ref G
    CO ref B
  - test signal: white picture
  - adjust CO ref B to the value 28.
    Adjust brightness and contrast until blue is just visible. Adjust CO ref R and CO ref G until red and green are also just visible.
- white adjustment R, G, B.
  - indication on the screen: wd r
    wd g
    wd b
  - test signal: white picture
  - Adjust the required white level by means of "volume +/–".
- SVHS luminance delay
  - indication on the screen: SVHS del xxx
    (this adjustment is only possible if a SVHS signal has been selected.)
  - test signal: SVHS colour bar
  - Adjust until the luminance signal covers the colour signal exactly.
    Steps 1 until 128 result in a positiv delay and the steps 129 until 255 result in a negativ delay.
- **SYNC**
  - For sets with poduction code AG20 and AG30: this parameter should be set on 40.
  - For sets with production code AG21 and AG31 and higher: this parameter should be set on 30.
- **PIP-Adr.xxx**
  - The right values can be adjusted on PIP addresses 096 to 102 as follows:

indication on the screen	action to be taken
wd r,g,b	press –/––
PIP addr.096	press –/––
PIP val xxx	adjust – volume + for value 002
PIP val 002	press PP (to store this value)
PIP val 002 "stored"	press (mute)
PIP addr.096	adjust volume + for PIP addr.097
PIP addr.097	press –/––
PIP val xxx	adjust – volume + for value 008
PIP val 008	press PP (to store this value)

Repeat this adjustment procedure until all PIP addresses have been provided with the right value.

D. Adjustments on the P.I.P. panel (see Diagram H)

Before performing every adjustment care should be taken that a P.I.P. picture is visible on the screen and the set should have reached its operating temperature.

1. Horizontal frequency drift compensation

Apply an aerial or generator signal.
Short pin 28-IC7125 with pin 13-IC7125.
Short pin 5-IC7755 to ground.
Measure the frequency at pin 17-IC7755 and adjust it with R3239 for 15.625 Hz ± 25 Hz.
Remove the short-circuits.

2. SECAM bandpass

Connect a pattern generator and apply a SECAM colour bar signal.
Short pin 27-IC7125 with pin 13-IC7125.
Trigger the oscilloscope with the sandcastle signal (pin 17-IC7755).
Adjust S5118 for a minimum AM modulation (pin 15-IC7125).
Remove the short-circuit.

3. 8,87 MHz oscillator

Connect a pattern generator and apply a PAL colour bar signal.
Short pin 28-IC7125 with pin 13-IC7125.
Short pin 17-IC7125 to ground.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y mode.
Adjust C2202 until the oscilloscope picture is as still as possible.
Remove the short-circuits.

4. 7,16 MHz oscillator

Connect a pattern generator and apply an NTSC M colour bar signal.
Short pin 26-IC7125 with pin 13-IC7125.
Short pin 17-IC7125 to ground.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y mode.
Adjust C2212 until the oscilloscope picture is as still as possible.
Remove the short-circuits.

5. PAL delay line

Connect a pattern generator and apply a PAL colour bar signal.
Short pin 28-IC7125 with pin 13-IC7125.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y mode.
Adjust coils S5155 and S5157 until the vectors are in line (points lying furthest from the origin).
Set the pattern generator to the "DEM" mode.
Adjust R3157 until the vectors lie on each other in the origin.
Remove the short-circuit.

6. SECAM identification

- apply a SECAM colour bar
- connect pin 27–IC7125 with pin 13–IC7125
- connect an oscilloscope with pin 21 of IC7125
- adjust S5190 for minimum DC level

7. R–Y / B–Y SECAM demodulators

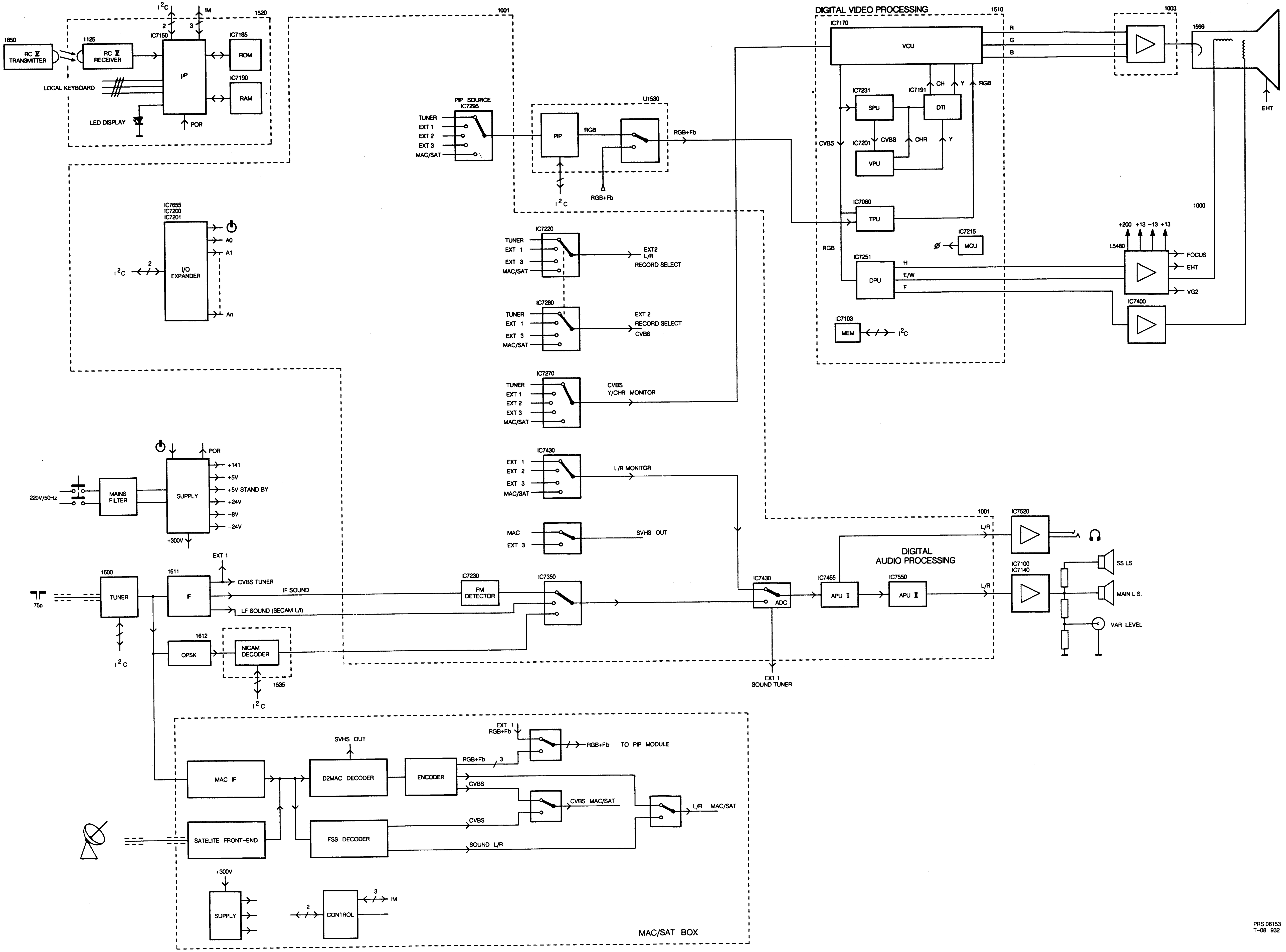
- apply a SECAM signal without contents (black)
- connect pin 27–IC7125 with pin 13–IC7125
- connect an oscilloscope with the emitter of TS7279
- adjust S5175 until the DC level during scan is equal to the DC level during flyback
- adjust S5170 in the same way, but now measure the emitter of TS7278

E. Electrical adjustments on the NICAM decoderboard (see Diagram I)

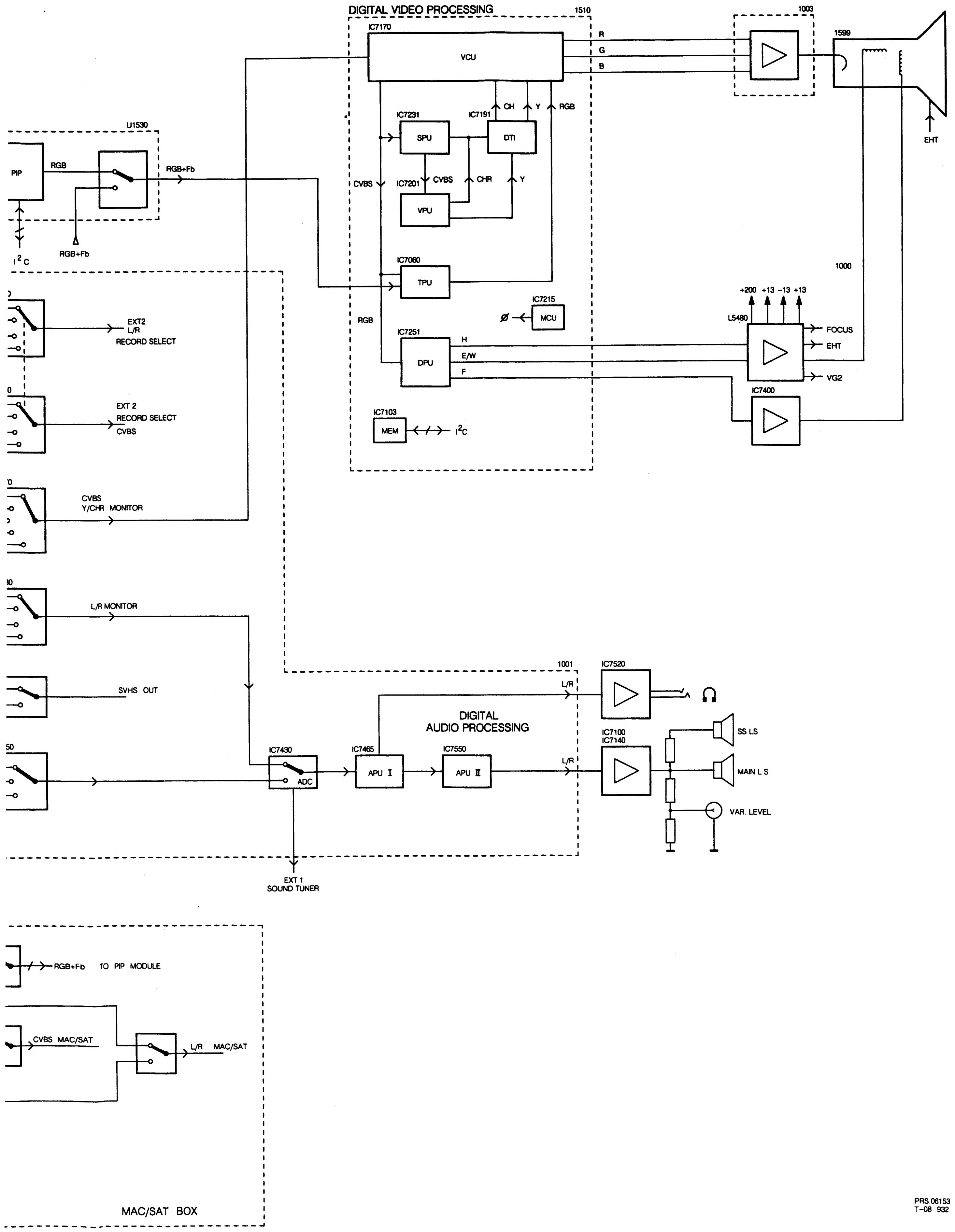
1. The Sample clockoscillator

Apply an antenna or generator signal which is provided with a NICAM soundsignal. Connect an oscilloscope to pin 9 of IC7201.
Set the sensitivity of the oscilloscope at 1V/div and the time base at 2 µS/div. Adjust C2202 until a symmetrical square wave is visible.

BLOCKDIAGRAM CHASSIS D16


I²C
IM
2
3
1520
1850
RC V TRANSMITTER
1125
RC V RECEIVER
IC7150
µP
IC7185
ROM
IC7190
RAM
LOCAL KEYBOARD
LED DISPLAY
POR
1001
PIP SOURCE IC7295
TUNER
EXT 1
EXT 2
EXT 3
MAC/SAT
U1530
PIP
RGB
RGB+Fb
I²C
RGB+Fb
IC7655
IC7200
IC7201
I/O EXPANDER
A0
A1
An
I²C
2
IC7220
TUNER
EXT 1
EXT 3
MAC/SAT
EXT2
L/R
RECORD SELECT
IC7280
TUNER
EXT 1
EXT 3
MAC/SAT
EXT 2
RECORD SELECT
CVBS
IC7270
TUNER
EXT 1
EXT 2
EXT 3
MAC/SAT
CVBS
Y/CHR MONITOR
IC7430
EXT 1
EXT 2
EXT 3
MAC/SAT
L/R MONITOR
MAC
EXT 3
SVHS OUT
DIGITAL VIDEO PROCESSING
1510
IC7170
VCU
R
G
B
CH
Y
RGB
IC7231
SPU
IC7191
DTI
CVBS
IC7201
CVBS
CHR
Y
VPU
IC7060
TPU
IC7215
MCU
Ø
RGB
IC7251
DPU
H
E/W
F
IC7103
MEM
I²C
1003
1599
EHT
1000
+200 +13 −13 +13
L5480
FOCUS
EHT
VG2
IC7400
POR
+141
+5V
+5V STAND BY
+24V
−8V
−24V
+300V
220V/50Hz
MAINS FILTER
SUPPLY
75Ω
1600
TUNER
I²C
1611
IF
EXT 1
CVBS TUNER
IF SOUND
LF SOUND (SECAM L/I)
1612
QPSK
NICAM DECODER
1535
I²C
IC7230
FM DETECTOR
IC7350
IC7430
ADC
EXT 1
SOUND TUNER
1001
DIGITAL
AUDIO PROCESSING
IC7465
APU I
IC7550
APU II
L/R
L/R
IC7520
IC7100
IC7140
SS LS
MAIN L S.
VAR LEVEL
EXT 1
RGB+Fb
RGB+Fb TO PIP MODULE
SVHS OUT
MAC IF
D2MAC DECODER
ENCODER
RGB+Fb
3
CVBS
CVBS MAC/SAT
L/R MAC/SAT
SATELITE FRONT-END
FSS DECODER
CVBS
SOUND L/R
+300V
SUPPLY
2
CONTROL
3
IM
MAC/SAT BOX

PRS.06153
T-08 932


DIGITAL VIDEO PROCESSING
1510
IC7170
VCU
R
G
B
1003
1599
EHT
IC7231
SPU
IC7191
DTI
CH
Y
RGB
CVBS
IC7201
CVBS
CHR
Y
VPU
U1530
PIP
RGB
RGB+Fb
RGB+Fb
I²C
IC7060
TPU
IC7215
MCU
RGB
IC7251
DPU
H
E/W
F
1000
+200 +13 −13 +13
L5480
FOCUS
EHT
VG2
IC7400
IC7103
MEM
I²C
EXT2
L/R
RECORD SELECT
EXT 2
RECORD SELECT
CVBS
CVBS
Y/CHR MONITOR
L/R MONITOR
SVHS OUT
1001
IC7520
L/R
DIGITAL
AUDIO PROCESSING
IC7430
ADC
IC7465
APU I
IC7550
APU II
L/R
IC7100
IC7140
SS LS
MAIN L S
VAR. LEVEL
EXT 1
SOUND TUNER
RGB+Fb TO PIP MODULE
CVBS MAC/SAT
L/R MAC/SAT
MAC/SAT BOX
PRS.06153
T-08 932

Survey of D16 diversities

D16–I

- recognizable from AG code on type number plate : AG1.... (The number 1 indicates chassis D16–I)
- only National Brand sets for France (63KD.../70KD....)
- no: PIP/NICAM/Black–line picture tube D2B
- only 25" and 28"
- with "fake" SVHS

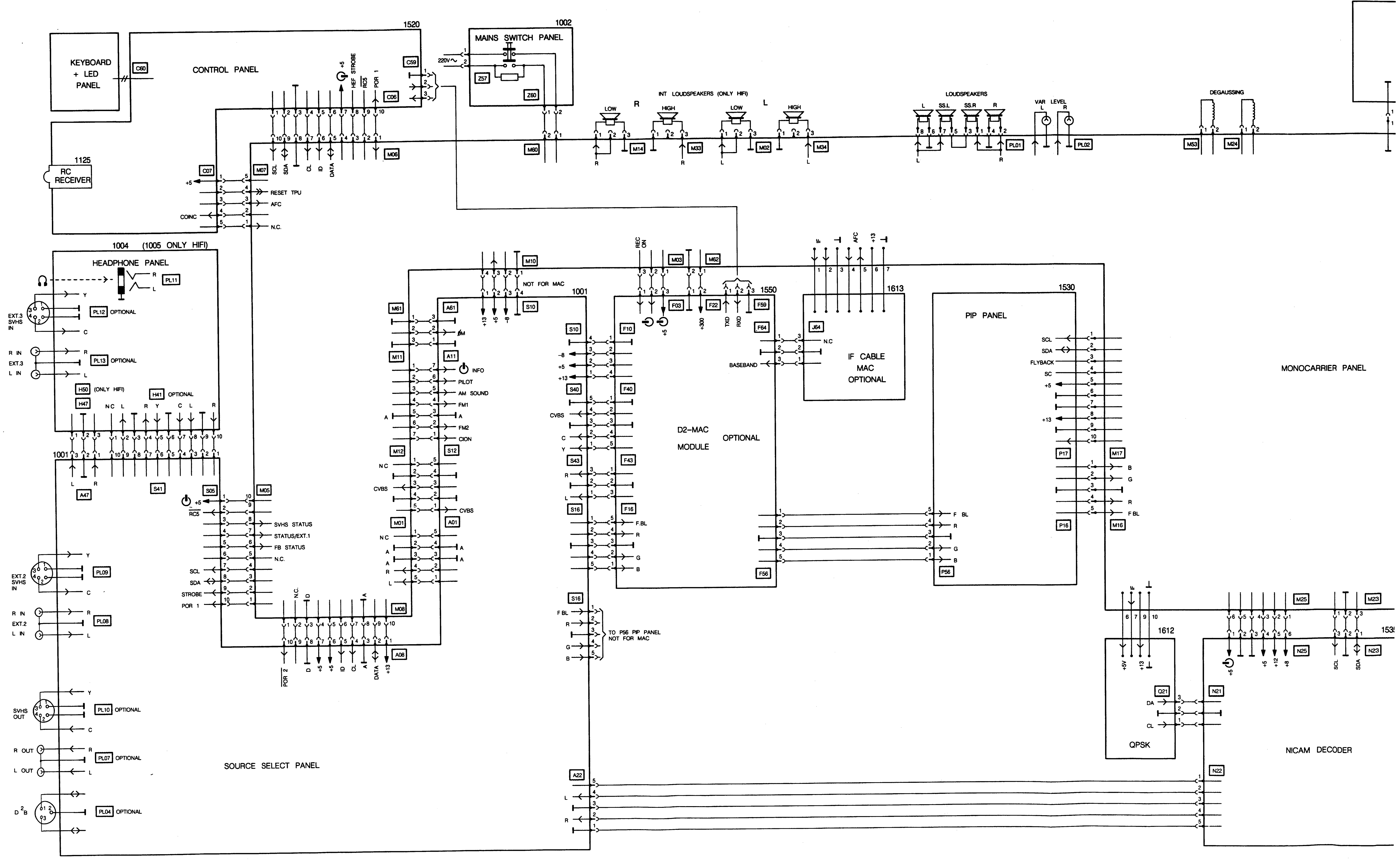
D16–II

- recognizable from AG code on type number plate: AG2..... (The number 2 indicates chassis D16–II)
- National Brand sets (70KD.../63KD...)
- HiFi sets (double asymmetrical) (28DC.../25DC...)
- Receivers (matchline) (25DC.../28DC...)
- with PIP (optional)
  NICAM (optional)
  black line
  D2B (optional)
  full SVHS
  FLOF (optional)
  SVHS out

D16–III

- Recognizable from AG code on typenumber plate: AG3...(The number 3 indicates chassis D16–III.).
- There are three possible executions:
  - National brand (63KD.../70KD.../25...BX/28...BX) symmetrical with loudspeaker boxes.
- HIFI (25DC.../28DC...)
- Receiver, matchline (25DC.../28DC.../33DC...)
- Standard in all D16–III sets:
  - black line picture tube
  - full SVHS
- Optinal for D16–III sets:
  - NICAM
  - PIP
  - D²B
  - FLOF
  - TOP
  - SVHS out
  - EXT. 3 in
  - D2MAC/FSS

WIRING DIAGRAM D16- III


KEYBOARD + LED PANEL
C60
1520
CONTROL PANEL
C59
C06
1002
MAINS SWITCH PANEL
220V~
Z57
Z60
M60
1125
RC RECEIVER
C07
M07
M06
SCL
SDA
CL
ID
DATA
+5
HEF STROBE
RC5
POR 1
RESET TPU
AFC
COINC
N.C.
INT LOUDSPEAKERS (ONLY HIFI)
R
L
LOW
HIGH
M14
M33
M02
M34
LOUDSPEAKERS
SS.L
SS.R
PL01
VAR LEVEL
PL02
DEGAUSSING
M53
M24
1004 (1005 ONLY HIFI)
HEADPHONE PANEL
PL11
PL12 OPTIONAL
EXT.3 SVHS IN
R IN
EXT.3
L IN
PL13 OPTIONAL
H50 (ONLY HIFI)
H47
H41 OPTIONAL
NC
Y
C
1001
A47
S41
S05
M05
RC5
SVHS STATUS
STATUS/EXT.1
FB STATUS
STROBE
POR 1
M10
NOT FOR MAC
S10
M61
A61
M11
A11
INFO
PILOT
AM SOUND
FM1
FM2
CION
M12
S12
CVBS
M01
A01
M08
A08
POR 2
D
DATA
+13
+5
-8
S40
S43
S16
F10
F40
F43
F16
F BL
G
B
TO P56 PIP PANEL NOT FOR MAC
A22
REC ON
M03
M62
F03
F22
F59
1550
+300
TXD
RXD
F64
BASEBAND
D2-MAC MODULE
OPTIONAL
F56
IF
AFC
1613
J64
IF CABLE MAC OPTIONAL
1530
PIP PANEL
FLYBACK
SC
P17
M17
P16
M16
P56
MONOCARRIER PANEL
M25
M23
1612
+5V
Q21
DA
QPSK
N25
N23
N21
N22
+12
+8
153
NICAM DECODER
EXT.2 SVHS IN
PL09
R IN
EXT.2
L IN
PL08
SVHS OUT
PL10 OPTIONAL
R OUT
L OUT
PL07 OPTIONAL
D2B
PL04 OPTIONAL
SOURCE SELECT PANEL

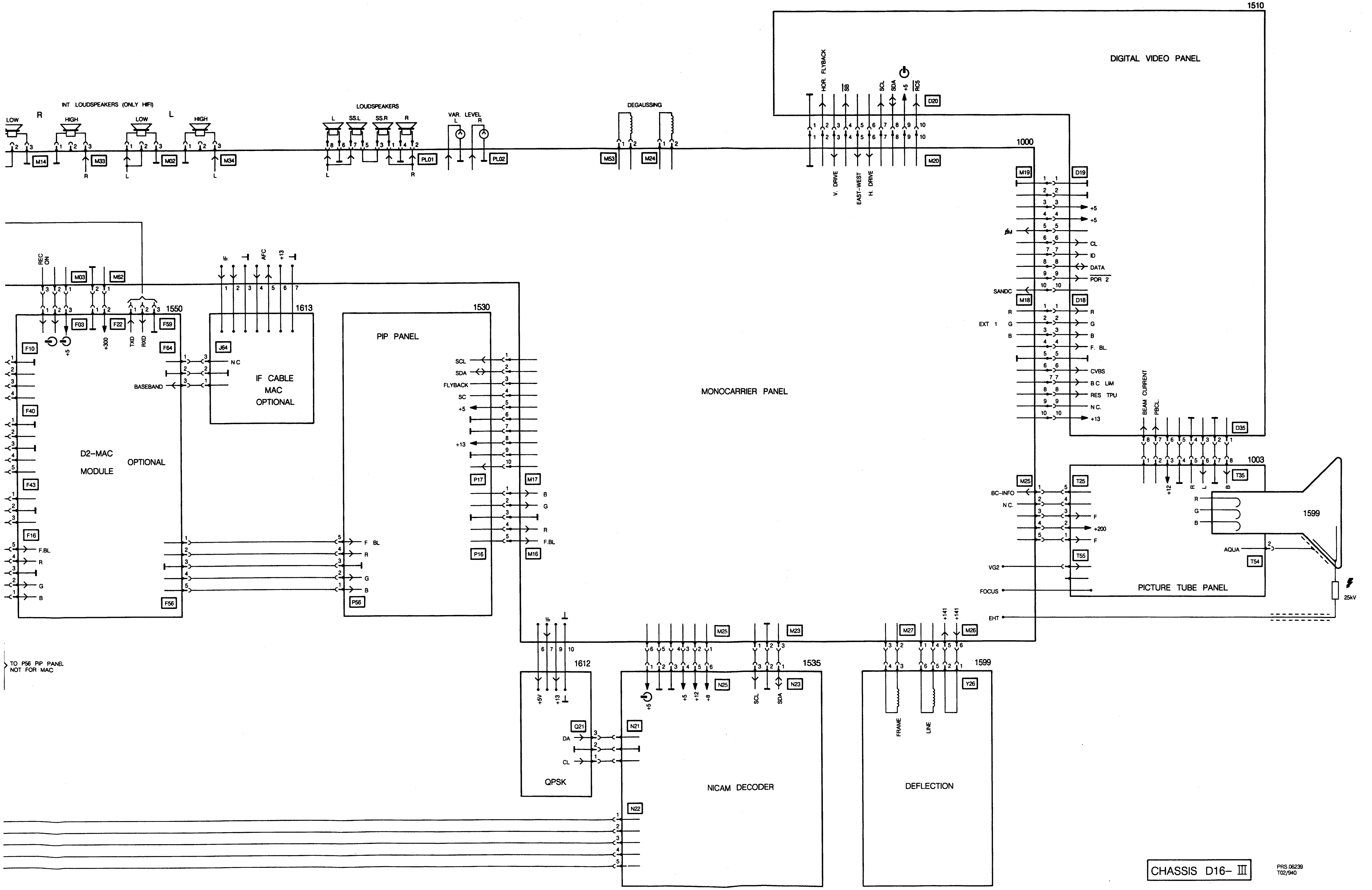
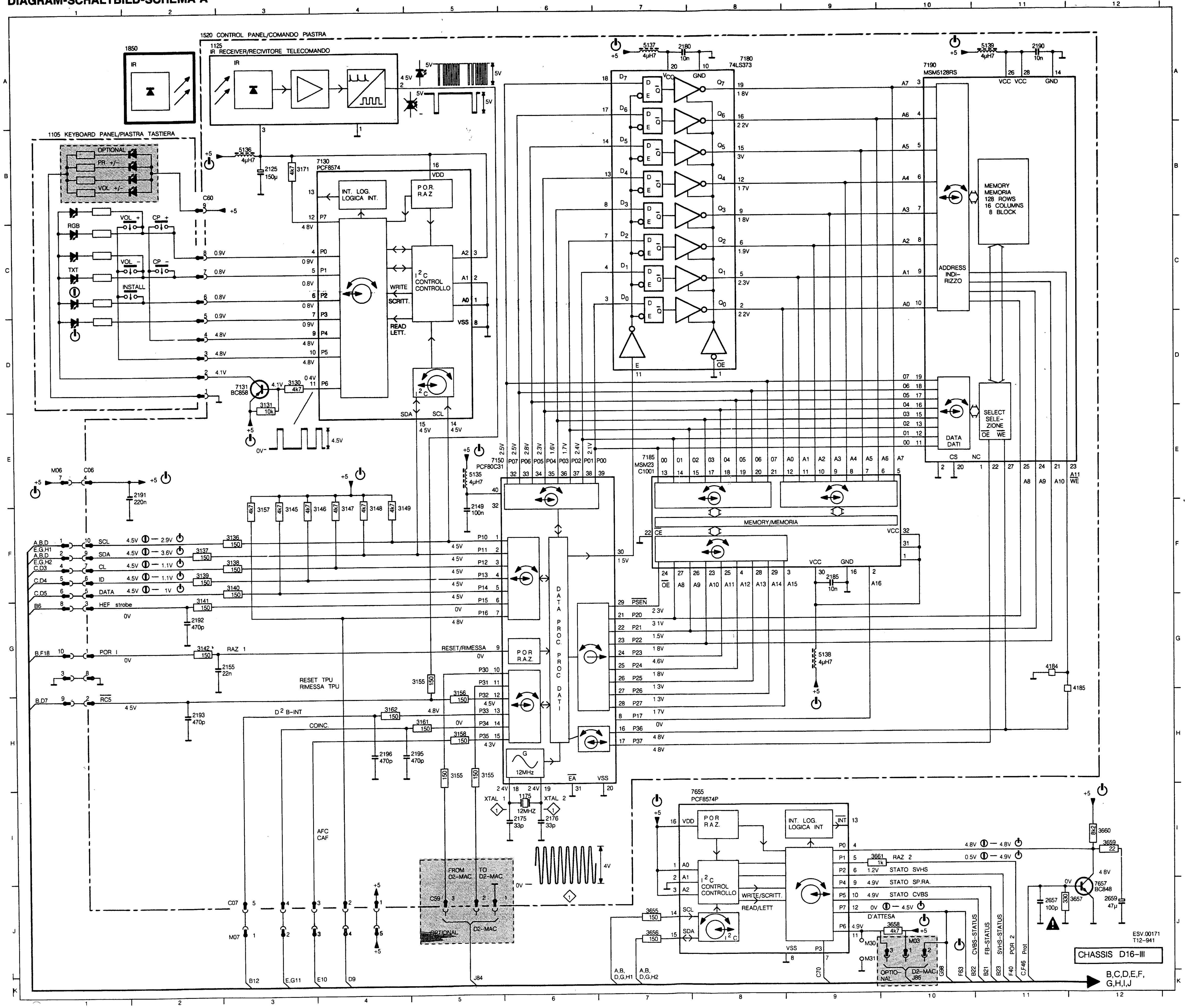
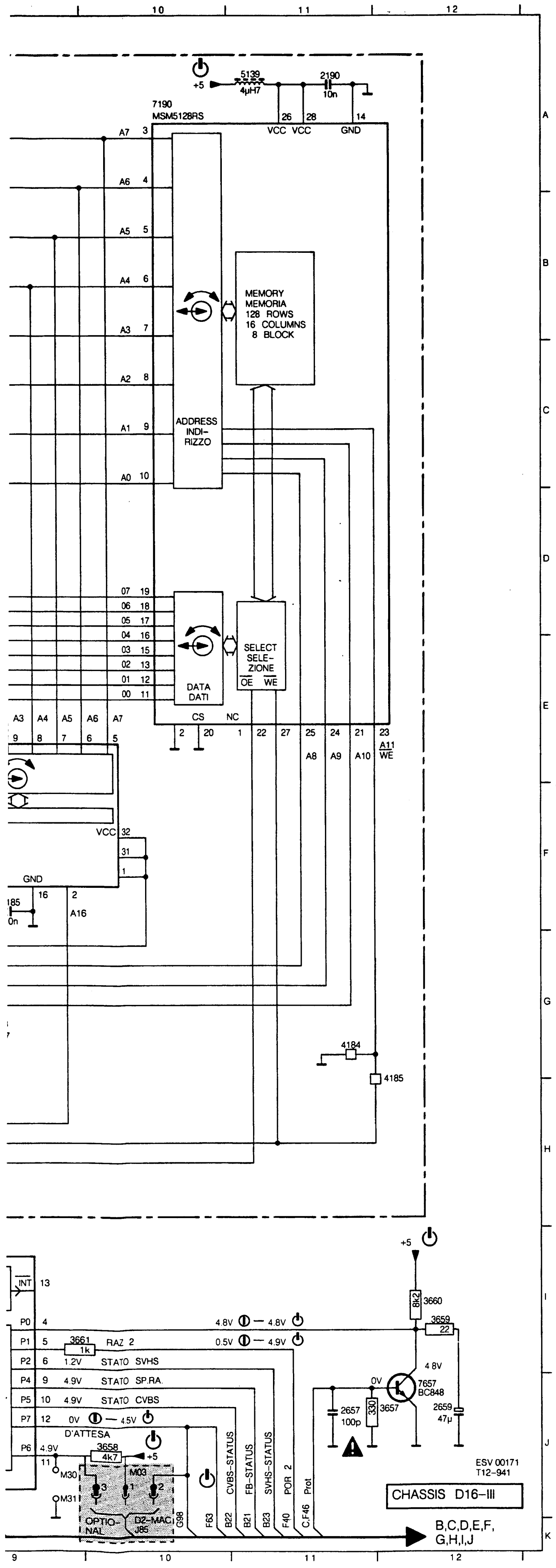

DIGITAL VIDEO PANEL
1510
HOR. FLYBACK
SB
SCL
SDA
+5
RCS
D20
V. DRIVE
EAST-WEST
H. DRIVE
M20
1000
INT LOUDSPEAKERS (ONLY HIFI)
LOW
HIGH
R
L
M14
M33
M02
M34
LOUDSPEAKERS
SS.L
SS.R
PL01
VAR. LEVEL
PL02
DEGAUSSING
M53
M24
M19
D19
CL
ID
DATA
POR 2
SANDC
M18
D18
EXT 1
R
G
B
F. BL.
CVBS
BC LIM
RES TPU
N.C.
+13
BEAM CURRENT
PBCL
D35
1003
T35
M25
T25
BC-INFO
N.C.
F
+200
T55
VG2
FOCUS
EHT
AQUA
T54
1599
25kV
PICTURE TUBE PANEL
MONOCARRIER PANEL
REC ON
M03
M62
1550
F03
F22
F59
F64
TXD
RXD
+300
F10
F40
F43
F16
F.BL
D2-MAC
MODULE
OPTIONAL
BASEBAND
F56
IF
AFC
1613
J64
NC
IF CABLE
MAC
OPTIONAL
1530
PIP PANEL
SCL
SDA
FLYBACK
SC
P17
M17
P16
M16
F BL
P56
TO P56 PIP PANEL
NOT FOR MAC
1612
+5V
+13
Q21
DA
CL
QPSK
M25
M23
1535
N25
N23
SCL
SDA
+12
+8
N21
NICAM DECODER
N22
M27
M26
+141
1599
Y26
FRAME
LINE
DEFLECTION
CHASSIS D16- III
PRS.06239
T02/940

DIAGRAM-SCHALTBILD-SCHEMA A

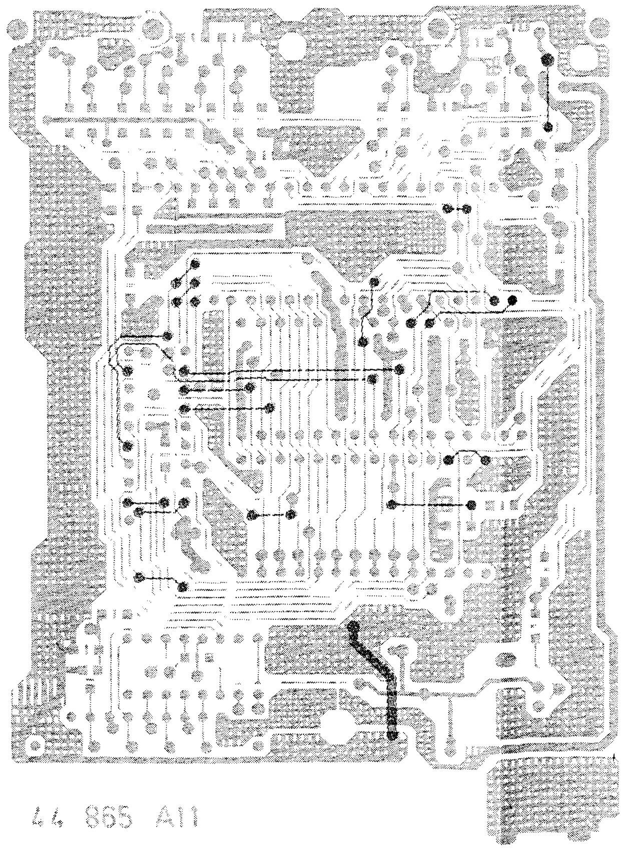

1520 CONTROL PANEL/COMANDO PIASTRA
1850
IR
1125 IR RECEIVER/RECIVITORE TELECOMANDO
1105 KEYBOARD PANEL/PIASTRA TASTIERA
OPTIONAL
PR +/-
VOL +/-
RGB
TXT
VOL +
CP +
VOL -
CP -
INSTALL
C60
5136 4μH7
2125 150μ
3171 4k7
7130 PCF8574
INT. LOG. LOGICA INT.
P.O.R. R.A.Z.
I²C CONTROL CONTROLLO
WRITE SCRITT.
READ LETT.
SDA
SCL
7131 BC858
3130 4k7
3131 10k
M06
C06
2191 220n
5135 4μH7
2149 100n
3157
3145
3146
3147
3148
3149
SCL
SDA
CL
ID
DATA
HEF strobe
POR
RC5
3136 150
3137 150
3138 150
3139 150
3140 150
3141 150
2192 470p
3142 150
RAZ 1
2155 22n
2193 470p
RESET TPU RIMESSA TPU
D² B-INT
COINC.
3162 150
3161 150
3158 150
3156 150
3155
2196 470p
2195 470p
RESET/RIMESSA
POR R.A.Z.
7150 PCF80C31
DATA PROC PROC DATI
PSEN
12MHz
EA
VSS
XTAL 1
XTAL 2
1175 12MHZ
2175 33p
2176 33p
AFC CAF
FROM D2-MAC
TO D2-MAC
C59
OPTIONAL
D2-MAC
C07
M07
B12
E,G11
E10
D9
J84
5137 4μH7
2180 10n
7180 74LS373
OE
5139 4μH7
2190 10n
7190 MSM5128RS
VCC VCC GND
ADDRESS INDI-RIZZO
MEMORY MEMORIA 128 ROWS 16 COLUMNS 8 BLOCK
DATA DATI
SELECT SELE-ZIONE
OE WE
CS
NC
7185 MSM23 C1001
MEMORY/MEMORIA
CE
VCC
GND
2185 10n
5138 4μH7
4184
4185
7655 PCF8574P
POR RAZ.
INT. LOG. LOGICA INT.
I²C CONTROL CONTROLLO
WRITE/SCRITT.
READ/LETT
RAZ 2
STATO SVHS
STATO SP.RA.
STATO CVBS
D'ATTESA
3661 1k
3655 150
3656 150
3658 4k7
M30
M31
M03
OPTIO-NAL
D2-MAC J85
CVBS-STATUS
FB-STATUS
SVHS-STATUS
POR 2
Prot
3660 8k2
3659 22
7657 BC848
2657 100p
3657 330
2659 47μ
A,B, D,G,H1
A,B, D,G,H2
C70
G98
F63
B22
B21
B23
F40
C,F46
ESV.00171 T12-941
CHASSIS D16-III
B,C,D,E,F, G,H,I,J

1105-B1
1105-C2
1105-D1
1125-A2
1175-I 6
2125-B3
2149-F5
2155-G2
2175-I 6
2176-I 6
2180-A7
2185-F9
2190-A11
2191-F2
2192-G2
2193-H2
2195-H4
2196-H4
2657-J11
2659-J12
3130-D3
3131-E3
3136-F3
3137-F2
3138-F3
3139-F2
3140-F3
3141-G2
3142-G2
3145-F3
3146-F3
3147-F4
3148-F4
3149-F4
3155-H5
3156-H5
3157-F3
3158-H5
3161-H5
3162-H4
3171-B3
3655-J7
3656-J7
3657-J11
3658-J10
3659-I 12
3660-I 12
3661-I 9
4184-G11
4185-G12
5135-E5
5136-B3
5137-A7
5138-G9
5139-A11
7130-D4
7131-D3
7150-H7
7180-D8
7185-F10
7190-E12
7655-J9
7657-J12
C06 -E1
C07 -J3
C60 -B2
M06 -E1
M07 -J3
M30 -J9
M31 -J9

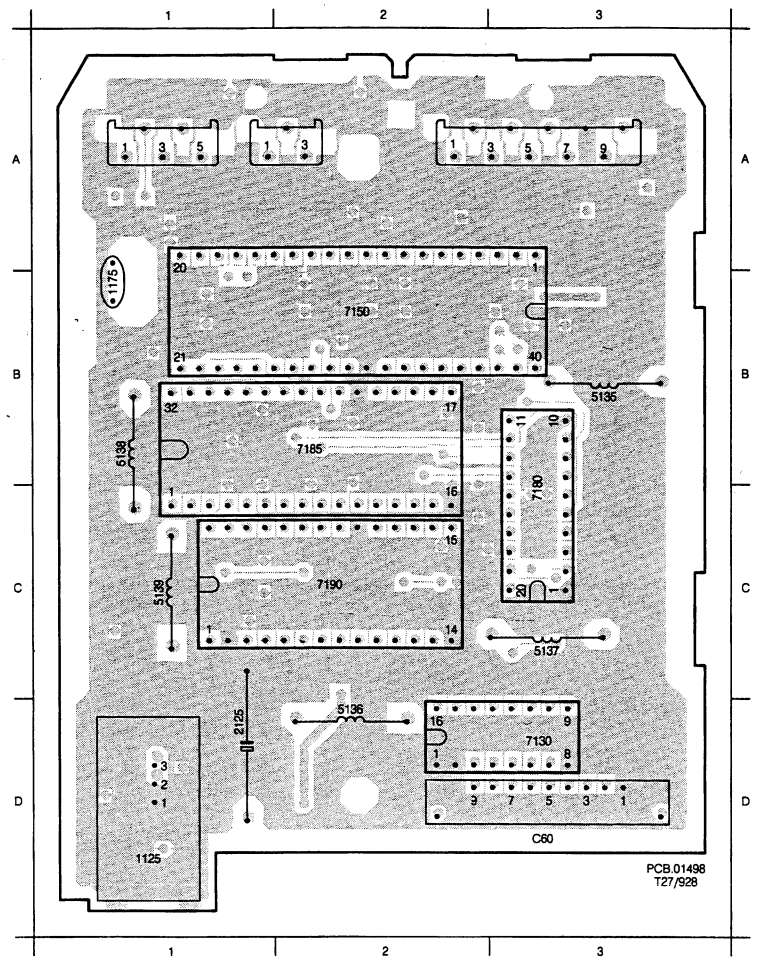

7190
MSM5128RS
5139
4µH7
2190
10n
VCC VCC
GND
MEMORY
MEMORIA
128 ROWS
16 COLUMNS
8 BLOCK
ADDRESS
INDI-
RIZZO
DATA
DATI
SELECT
SELE-
ZIONE
OE WE
CS
NC
A11
WE
A8 A9 A10
A16
GND
VCC
4184
4185
3660
8k2
3659
22
3661
1k
RAZ 2
STATO SVHS
STATO SP.RA.
STATO CVBS
D'ATTESA
3658
4k7
7657
BC848
2657
100p
3657
330
2659
47µ
OPTIO-
NAL
D2-MAC
J85
CVBS-STATUS
FB-STATUS
SVHS-STATUS
POR 2
ESV 00171
T12-941
CHASSIS D16-III
B,C,D,E,F,
G,H,I,J

1105	B1
1105	C2
1105	D1
1125	A2
1175	I 6
2125	B3
2149	F5
2155	G2
2175	I 6
2176	I 6
2180	A7
2185	F9
2190	A11
2191	F2
2192	G2
2193	H2
2195	H4
2196	H4
2657	J11
2659	J12
3130	D3
3131	E3
3136	F3
3137	F2
3138	F3
3139	F2
3140	F3
3141	G2
3142	G2
3145	F3
3146	F3
3147	F4
3148	F4
3149	F4
3155	H5
3156	H5
3157	F3
3158	H5
3161	H5
3162	H4
3171	B3
3655	J7
3656	J7
3657	J11
3658	J10
3659	I 12
3660	I 12
3661	I 9
4184	G11
4185	G12
5135	E5
5136	B3
5137	A7
5138	G9
5139	A11
7130	D4
7131	D3
7150	H7
7180	D8
7185	F10
7190	E12
7655	J9
7657	J12
C06	E1
C07	J3
C60	B2
M06	E1
M07	J3
M30	J9
M31	J9

CONTROL PANEL

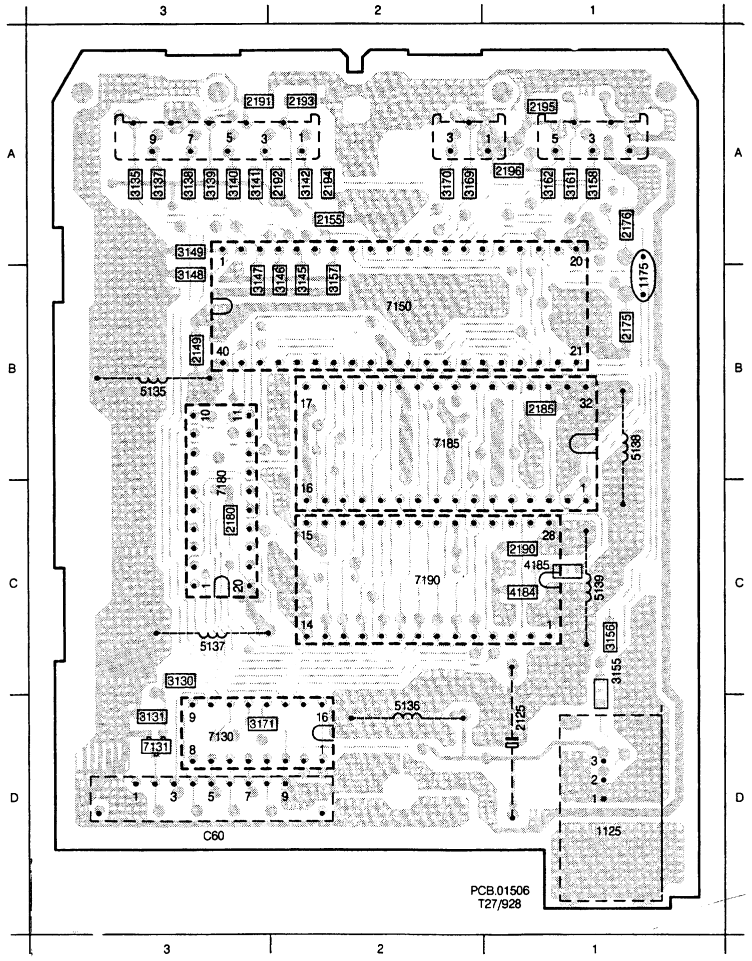


CONTROL PANEL


1175
20
7150
21
40
5135
32
17
5138
7185
1
16
11
10
7180
20
1
15
5139
7190
1
14
5137
2125
5136
16
9
7130
1
8
3
2
1
1125
9 7 5 3 1
C60
PCB.01498
T27/928

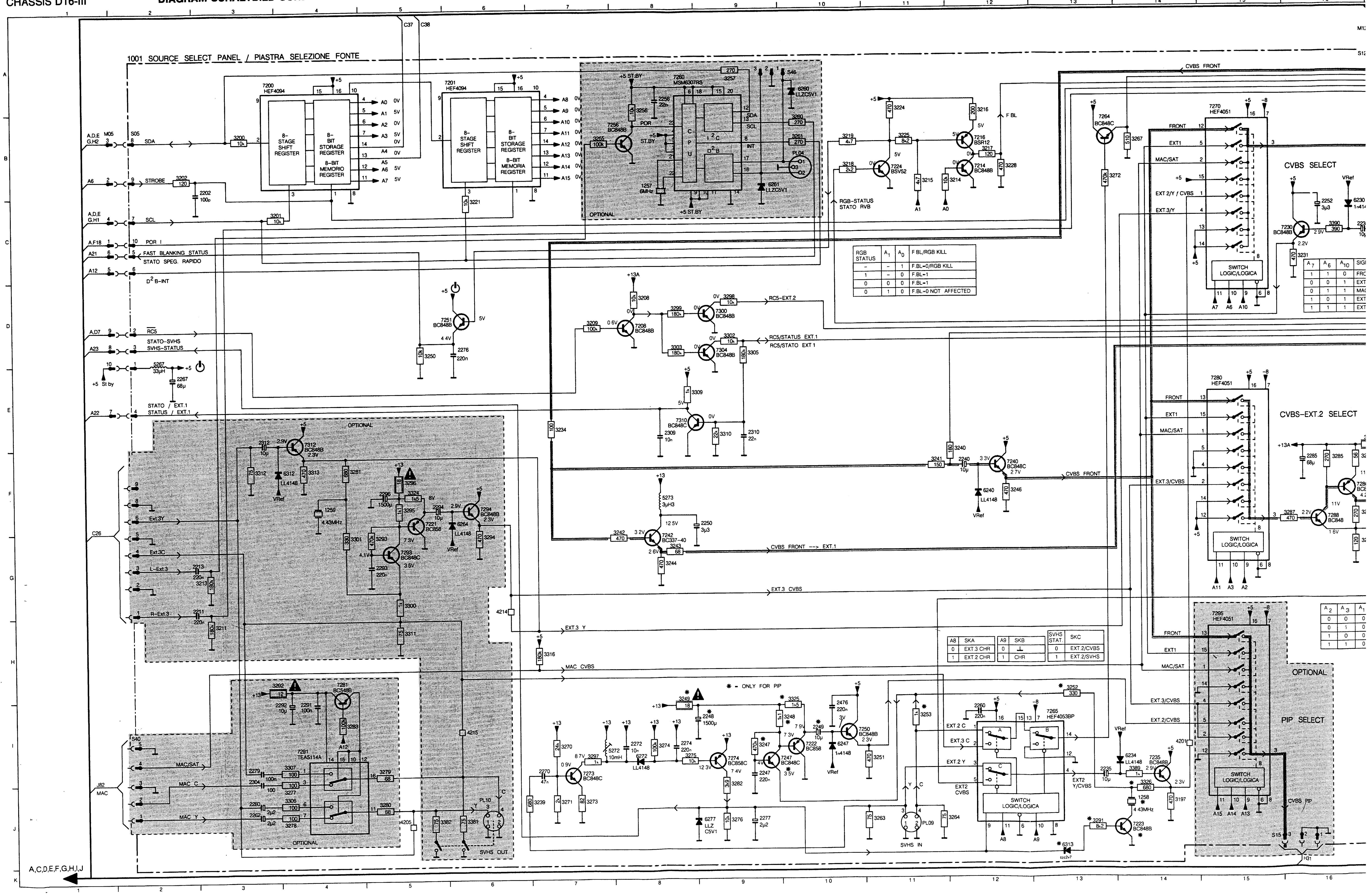
1125	D1
1175	B1
2125	D1
5135	B3
5136	D2
5137	C3
5138	B1
5139	C1
7130	D3
7150	B2
7180	B3
7185	B2
7190	C2
C60	D3

CONTROL PANEL


2191
2193
2195
9 7 5 3 1
3 1
5 3 1
3135
3137
3138
3139
3140
3141
3142
3145
3146
2194
3170
3169
2196
3162
3161
3158
2155
2176
3149
3148
3147
3146
3145
3157
7150
1175
2149
40
21
2175
5135
7185
2185
32
5138
7180
2180
16
2190
28
4185
4184
7190
5139
3156
14
5137
3155
3130
3131
7131
7130
3171
5136
2125
1 3 5 7 9
C60
1125
PCB.01506
T27/928

1125	D1
1175	B1
2125	D1
2149	B3
2155	A2
2175	B1
2176	A1
2180	C3
2185	B1
2190	C1
2191	A3
2192	A2
2193	A2
2194	A2
2195	A1
2196	A2
3130	C3
3131	D3
3135	A3
3137	A3
3138	A3
3139	A3
3140	A3
3141	A3
3142	A2
3145	B2
3146	B2
3147	B3
3148	B3
3149	A3
3155	C1
3156	C1
3157	B2
3158	A1
3161	A1
3162	A1
3169	A2
3170	A2
3171	D3
4184	C1
4185	C1
5135	B3
5136	D2
5137	C3
5138	B1
5139	C1
7130	D3
7131	D3
7150	B2
7180	B3
7185	B2
7190	C2
C60	D3

DIAGRAM-SCHALTBILD-SCHEMA B

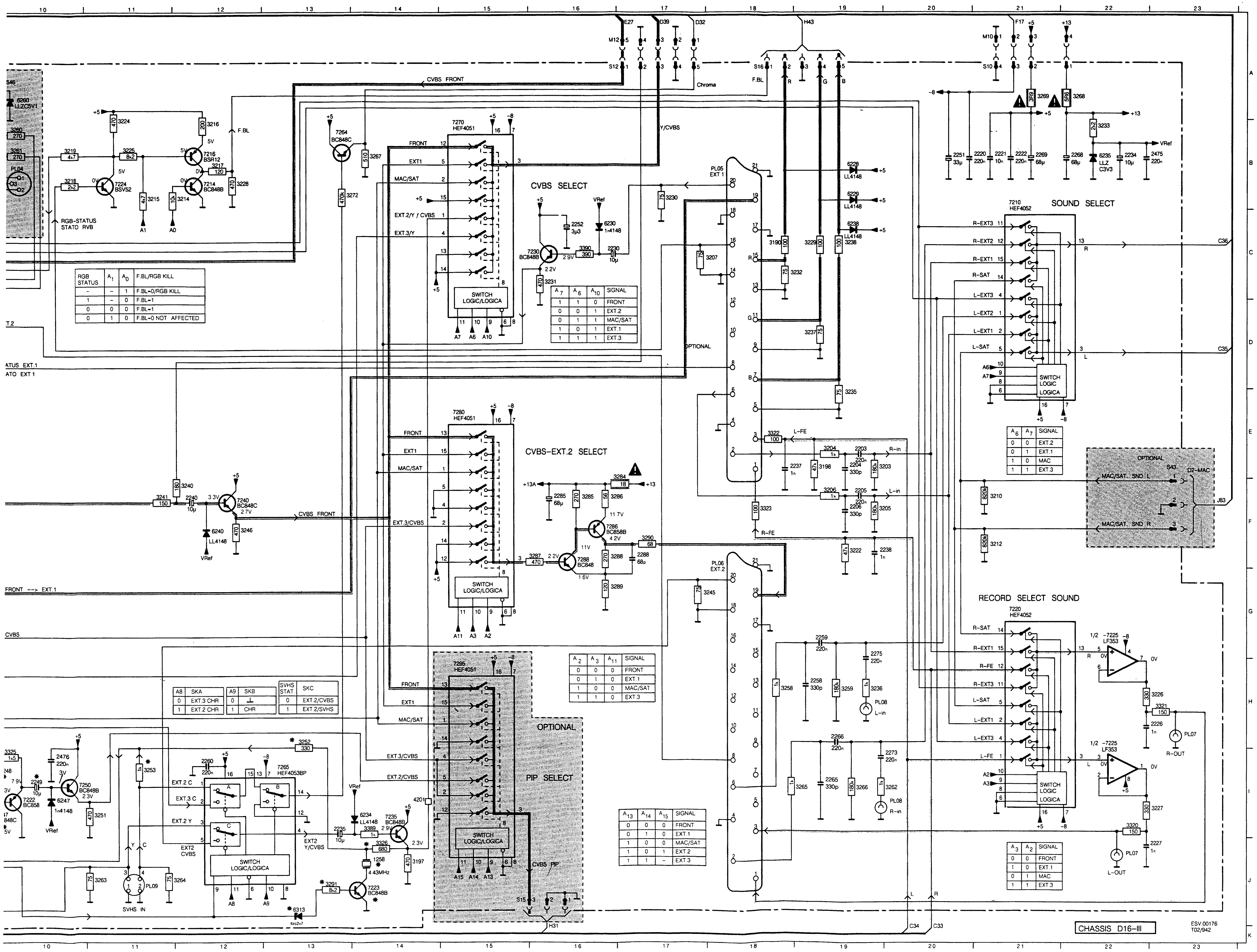

1001 SOURCE SELECT PANEL / PIASTRA SELEZIONE FONTE
7200 HEF4094
8-STAGE SHIFT REGISTER
8-BIT STORAGE REGISTER
8-BIT MEMORIO REGISTER
7201 HEF4094
8-BIT MEMORIA REGISTER
7260 MSM6307RS
OPTIONAL
SDA
STROBE
SCL
POR I
FAST BLANKING STATUS
STATO SPEG. RAPIDO
D2 B-INT
RC5
STATO-SVHS
SVHS-STATUS
STATO / EXT.1
STATUS / EXT.1
RGB-STATUS
STATO RVB
F BL
RC5-EXT.2
RC5/STATUS EXT.1
RC5/STATO EXT 1
CVBS FRONT
CVBS FRONT ---> EXT.1
EXT.3 CVBS
EXT.3 Y
MAC CVBS
CVBS SELECT
7270 HEF4051
FRONT
EXT1
MAC/SAT
EXT 2/Y / CVBS
EXT.3/Y
SWITCH LOGIC/LOGICA
CVBS-EXT.2 SELECT
7280 HEF4051
EXT.3/CVBS
7295 HEF4051
EXT.2/CVBS
PIP SELECT
CVBS PIP
✱ - ONLY FOR PIP
7265 HEF4053BP
EXT.2 C
EXT.3 C
EXT.2 Y
EXT2 CVBS
EXT2 Y/CVBS
7281 TEA5114A
MAC/SAT
MAC C
MAC Y
J82 MAC
C26
Ext.3Y
Ext.3C
L-Ext.3
R-Ext.3
SVHS OUT
SVHS IN
PL09
PL10
A,C,D,E,F,G,H,I,J

RGB STATUS	A_1	A_0	F BL/RGB KILL
–	–	1	F.BL=0/RGB KILL
1	–	0	F.BL=1
0	0	0	F.BL=1
0	1	0	F.BL=0 NOT AFFECTED

A8	SKA
0	EXT.3 CHR
1	EXT.2 CHR

A9	SKB
0	⊥
1	CHR

SVHS STAT.	SKC
0	EXT.2/CVBS
1	EXT.2/SVHS


CVBS SELECT
CVBS-EXT.2 SELECT
SOUND SELECT
RECORD SELECT SOUND
PIP SELECT
OPTIONAL
7270 HEF4051
7280 HEF4051
7295 HEF4051
7210 HEF4052
7220 HEF4052
7265 HEF4053BP
SWITCH LOGIC/LOGICA
PL05 EXT 1
PL06 EXT.2
PL07 R-OUT
PL07 L-OUT
PL08 L-in
PL08 R-in
PL09 SVHS IN
D2-MAC
MAC/SAT. SND L
MAC/SAT. SND R
RGB-STATUS STATO RVB
CVBS FRONT
FRONT --> EXT.1
CVBS
Y/CVBS
F.BL
Chroma
R G B
L-FE
R-FE
R-in
L-in
1/2 -7225 LF353
C36 C35 C34 C33
H31 H43 J83
ESV 00176 T02/942
CHASSIS D16-III

RGB STATUS	A_1	A_0	F.BL/RGB KILL
-	-	1	F.BL=0/RGB KILL
1	-	0	F.BL=1
0	0	0	F.BL=1
0	1	0	F.BL=0 NOT AFFECTED

A_7	A_6	A_{10}	SIGNAL
1	1	0	FRONT
0	0	1	EXT.2
0	1	1	MAC/SAT
1	0	1	EXT.1
1	1	1	EXT.3

A_6	A_7	SIGNAL
0	0	EXT.2
0	1	EXT.1
1	0	MAC
1	1	EXT.3

A_2	A_3	A_{11}	SIGNAL
0	0	0	FRONT
0	1	0	EXT.1
1	0	0	MAC/SAT
1	1	0	EXT.3

A8	SKA	A9	SKB	SVHS STAT.	SKC
0	EXT.3 CHR	0	⊥	0	EXT.2/CVBS
1	EXT.2 CHR	1	CHR	1	EXT.2/SVHS

A_{13}	A_{14}	A_{15}	SIGNAL
0	0	0	FRONT
0	1	0	EXT.1
1	0	0	MAC/SAT
1	0	1	EXT.2
1	1	-	EXT.3

A_3	A_2	SIGNAL
0	0	FRONT
1	0	EXT.1
0	1	MAC
1	1	EXT.3

-722-I 22
1257-C8
1258-J14
1259-F4
2202-C3
2203-E19
2204-F19
2205-F19
2206-F19
2211-G2
2213-G2
2220-B20
2221-B21
2222-B21
2226-H22
2227-J22
2230-C17
2234-B22
2235-I 13
2237-F18
2238-F19
2240-F12
2247-J9
2248-I 9
2249-I 10
2250-G9
2251-B20
2252-C16
2256-A8
2258-H19
2259-G19
2260-I 12
2262-J3
2265-I 19
2266-H19
2267-E2
2268-B22
2269-B21
2270-I 7
2272-I 8
2273-I 19
2274-I 8
2275-H19
2276-D6
2277-J9
2279-I 3
2280-J3
2285-F16
2288-G17
2291-H4
2292-I 4
2293-G5
2294-F6
2296-F5
2304-J3
2309-F8
2310-F9
2312-E3
2475-B22
2476-I 10
3190-C18
3197-J14
3198-F19
3200-B3
3201-C3
3202-B2
3203-F19
3204-E19
3205-F19
3206-F19
3207-C17
3208-D8
3209-D7
3210-F21
3211-H3
3212-F21
3213-G3
3214-C12
3215-C11
3216-B12
3217-B12
3218-B10
3219-B10
3221-C6
3222-F19
3224-B11
3225-B11
3226-H22
3227-I 22
3228-B12
3229-C19
3230-C17
3231-C16
3232-C18
3233-B22
3234-E7
3235-E19
3236-H19
3237-D19
3238-C19
3239-J6
3240-F12
3241-F11
3242-G7
3243-G8
3244-G8
3245-G17
3246-F12
3247-I 9
3248-I 9
3249-I 8
3250-D5
3251-I 11
3252-I 13
3253-I 11
3255-B7
3256-B8
3257-A9
3258-H18
3259-H19
3260-B10
3261-B10
3262-I 19
3263-J11
3264-J11
3265-I 18
3266-I 19
3267-B14
3268-A22
3269-A21
3270-I 7
3271-J7
3272-C13
3273-J7
3274-I 8
3275-I 8
3276-J9
3277-J4
3278-J4
3279-I 5
3280-J5
3281-F4
3282-I 9
3283-I 4
3284-F16
3285-F16
3286-F16
3287-F15
3288-G16
3289-G16
3290-F17
3291-J13
3292-H4
3293-G5
3294-G6
3295-F5
3296-F5
3297-I 7
3298-D9
3299-D8
3300-H5
3301-G4
3302-D9
3303-D8
3305-E9
3306-J4
3307-I 4
3309-E8
3310-F9
3311-H5
3312-F3
3313-F4
3316-H7
3320-I 22
3321-H23
3322-E18
3323-F18
3324-F5
3325-I 10
3326-J14
3381-J6
3382-J5
3389-I 14
3390-C16
4201-I 14
4205-J5
4214-H6
4215-I 6
5267-E2
5272-I 7
5273-F8
6228-B19
6229-B19
6230-C16
6234-I 14
6235-B22
6238-C19
6240-F12
6247-I 10
6260-A10
6261-B9
6264-F6
6272-I 8
6277-J9
6312-F4
6313-J13
7200-B5
7201-B7
7208-D8
7210-E22
7214-B12
7216-B12
7220-I 22
7221-F5
7222-I 10
7223-J13
7224-B11
7230-C16
7235-I 14
7240-F12
7242-G8
7247-I 9
7250-I 10
7251-D6
7256-B8
7264-B13
7265-J12
7270-D15
7273-I 7
7274-I 9
7280-G15
7281-I 4
7286-F16
7288-F16
7293-G5
7294-F6
7295-J15
7300-D8
7304-D8
7310-E9
7312-E4
M05 -B1
M10 -A21
M12 -A17
PL04-B10
PL05-E18
PL06-J18
PL07-H23
PL07-J22
PL08-H19
PL09-J11
PL10-J6
S05 -B2
S10 -A21
S12 -A17
S15 -J16
S16 -A18
S41 -F2
S46 -A9

BELONGS TO DIAGRAM B

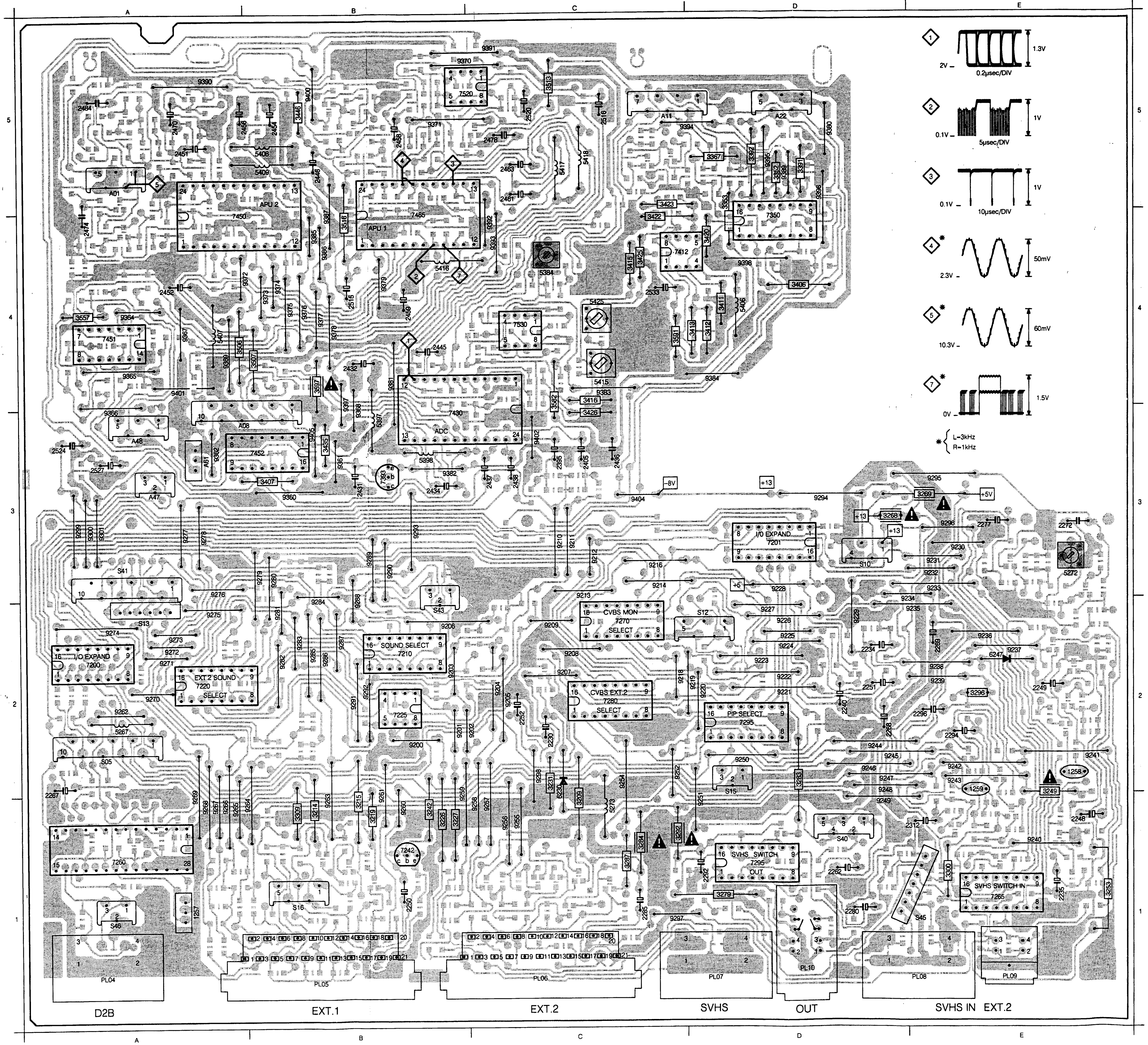
DIVERSITY SOURCE SELECT PANEL

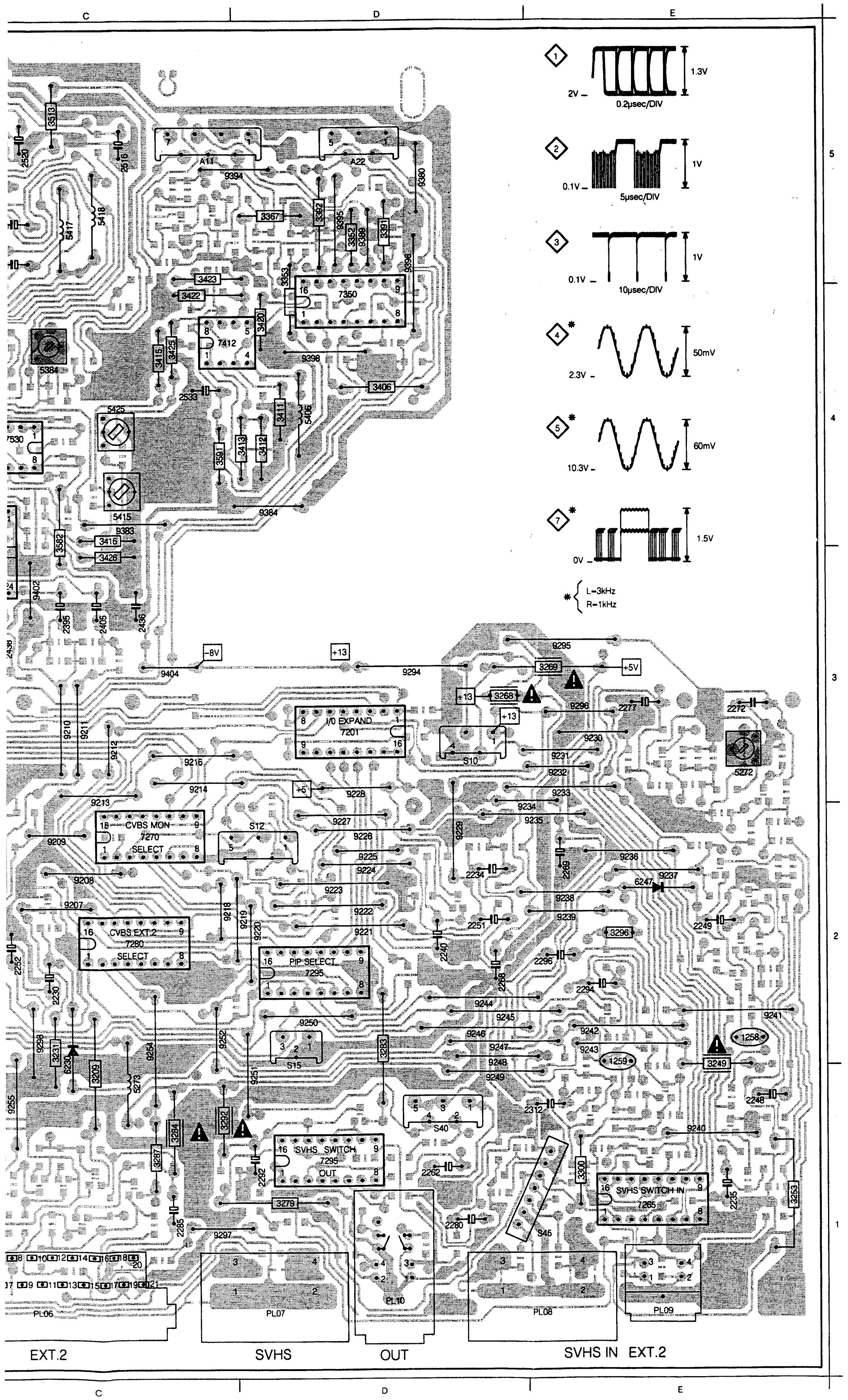
	PIP	EXT.3 CVBS	EXT.3 SVHS	MAC	MAC+EXT SVHS	D2–B
1257	–	–	–	–	–	+
1259	–	–	+	–	+	–
2211	–	+	+	–	+	–
2213	–	+	+	–	+	–
2262	–	–	–	+	+	–
2256	–	–	–	–	–	+
2279	–	–	–	–	+	–
2280	–	–	–	–	+	–
2292	–	–	–	+	+	–
2293	–	–	+	–	+	–
2294	–	–	+	–	+	–
2296	–	–	+	–	+	–
2304	–	–	–	+	+	–
2312	–	+	+	–	+	–
3255	–	–	–	–	–	+
3256	–	–	–	–	–	+
3257	–	–	–	–	–	+
3260	–	–	–	–	–	+
3261	–	–	–	–	–	+
3277	–	–	–	+	+	–
3278	–	–	–	+	+	–
3279	–	–	–	+	+	–
3280	–	–	–	+	+	–
3281	–	–	+	–	+	–
3283	–	–	–	+	+	–
3292	–	–	–	+	+	–
3293	–	–	+	–	+	–
3295	–	–	+	–	+	–
3296	–	–	+	–	+	–
3300	–	–	+	–	+	–
3301	–	–	+	–	+	–
3306	–	–	–	–	+	–
3307	–	–	–	–	+	–
3311	–	–	–	–	+	–
3312	–	+	–	–	+	–
3324	–	–	+	–	+	–
3381	–	–	+	–	+	–
3282	–	–	+	–	+	–
4205	–	–	+	–	+	–
4214	–	+	–	–	+	–
4215	–	–	+	–	+	–
6264	–	–	+	–	+	–
6265	–	–	–	+	+	–
6292	–	–	–	+	+	–
6312	–	+	+	–	+	–
7221	–	–	+	–	+	–
7256	–	–	–	–	–	+
7260	–	–	–	–	–	+
7281	–	–	–	+	+	–
7291	–	–	–	+	+	–
7293	–	–	+	–	+	–
7294	–	–	+	–	+	–
7295	+	–	–	–	+	–
7312	–	+	+	–	+	–
PL04	–	–	–	–	–	+
PL10	–	–	+	+	+	–
S13	+	–	–	–	–	–
S40	–	–	–	+	+	–
S41	–	+	+	–	+	–
S46	–	–	–	–	–	+

REMARKS:
+ - COMPONENT PRESENT FOR SPECIFIED OPTION
– - COMPONENT NOT PRESENT FOR SPECIFIED OPTION

PRS 06255
T07–941

SOURCE SELECT PANEL

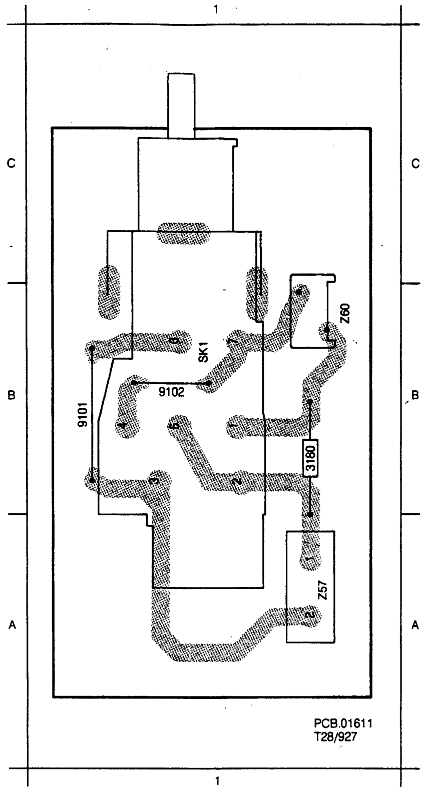

A
B
C
D
E
1
2
3
4
5
APU 2
7450
APU 1
7465
7520
A11
A22
7350
7412
7530
5425
5415
7430
ADC
7451
A08
A48
7452
A61
A47
-8V
+13
+5V
I/O EXPAND
7201
S10
5272
S41
S43
CVBS MON
7270
SELECT
S12
S13
SOUND SELECT
7210
I/O EXPAND
7200
EXT 2 SOUND
7220
SELECT
7225
CVBS EXT.2
7280
SELECT
PIP SELECT
7295
S05
5267
S15
7260
7242
SVHS SWITCH
7295
OUT
S40
S45
SVHS SWITCH IN
7265
S16
S46
PL04
PL05
PL06
PL07
PL10
PL08
PL09
D2B
EXT.1
EXT.2
SVHS
OUT
SVHS IN
EXT.2
1.3V
2V
0.2μsec/DIV
1V
0.1V
5μsec/DIV
1V
0.1V
10μsec/DIV
50mV
2.3V
60mV
10.3V
1.5V
0V
L=3kHz
R=1kHz


C
D
E
1
2
3
4
5
① 2V 0.2µsec/DIV 1.3V
② 0.1V 5µsec/DIV 1V
③ 0.1V 10µsec/DIV 1V
④* 2.3V 50mV
⑤* 10.3V 60mV
⑦* 0V 1.5V
* L=3kHz R=1kHz
A11
A22
7350
7412
I/O EXPAND 7201
CVBS MON 7270 SELECT
CVBS EXT.2 7280 SELECT
PIP SELECT 7295
SVHS SWITCH 7295 OUT
SVHS SWITCH IN 7265
S10
S12
S15
S40
S45
-8V
+13
+5V
PL06
PL07
PL08
PL09
PL10
EXT.2
SVHS
OUT
SVHS IN
EXT.2

A01	5A	7210	2B	9378	4B
A08	3A	7220	2A	9379	4B
A11	5C	7225	2B	9380	5D
A22	5D	7242	1B	9381	4B
A47	3A	7260	1A	9382	3B
A48	3A	7265	1E	9383	4C
A61	3A	7270	2C	9384	4D
S05	2A	7280	2C	9385	4B
S10	3D	7295	1D	9386	4B
S12	2D	7295	2D	9387	4B
S13	2A	7350	4D	9389	5D
S15	1D	7393	3B	9390	5A
S16	1B	7412	4C	9391	5C
S40	1D	7430	3B	9392	4C
S41	3A	7450	4A	9393	4C
S43	2B	7451	4A	9394	5C
S45	1E	7452	3B	9395	5D
S46	1A	7465	4B	9396	5D
1257	1A	7520	5B	9397	3B
1258	2E	7530	4C	9398	4D
1259	2E	9200	2B	9400	5B
2230	2C	9201	2B	9401	4A
2234	2D	9202	2C	9402	3C
2235	1E	9203	2B	9404	3C
2240	2D	9204	2C	9405	3B
2248	1E	9205	2C	PL04	1A
2249	2E	9206	2B	PL05	1B
2250	1B	9207	2C	PL06	1C
2251	2D	9208	2C	PL07	1D
2252	2C	9209	2C	PL08	1E
2262	1D	9210	3C	PL09	1E
2267	2A	9211	3C	PL10	1D
2268	2D	9212	3C		
2269	2E	9213	3C		
2272	3E	9214	3C		
2277	3E	9216	3C		
2280	1D	9218	2C		
2285	1C	9219	2D		
2292	1D	9220	2D		
2294	2E	9221	2D		
2296	2E	9222	2D		
2312	1D	9223	2D		
2395	3C	9224	2D		
2405	3C	9225	2D		
2431	3B	9226	2D		
2432	4B	9227	2D		
2434	3B	9228	3D		
2436	3C	9229	2D		
2437	3C	9230	3E		
2438	3C	9231	3E		
2445	4B	9232	3E		
2446	5B	9233	3E		
2451	5A	9234	2D		
2452	4A	9235	2D		
2454	5B	9236	2E		
2456	5B	9237	2E		
2458	5B	9238	2E		
2459	4B	9239	2E		
2461	5C	9240	1E		
2463	5C	9241	2E		
2470	5A	9242	2E		
2474	4A	9243	2E		
2478	5C	9244	2D		
2484	5A	9245	2D		
2515	4B	9246	2D		
2516	5C	9247	2D		
2520	5C	9248	1D		
2524	3A	9249	1D		
2527	3A	9250	2D		
2533	4C	9251	1D		
3209	1C	9252	2C		
3214	1B	9254	2C		
3215	1B	9255	1C		
3219	1B	9256	1C		
3226	1B	9257	1C		
3227	1B	9258	1C		
3231	2C	9259	1B		
3242	1B	9260	1B		
3249	1E	9261	1B		
3253	1E	9262	2A		
3268	3D	9263	1B		
3269	3E	9264	1B		
3279	1D	9265	1A		
3283	2D	9266	1A		
3284	1C	9267	1A		
3287	1C	9268	1A		
3292	1C	9269	1A		
3296	2E	9270	2A		
3300	1E	9271	2A		
3309	1B	9272	2A		
3352	5D	9273	2A		
3353	5D	9274	2A		
3367	5D	9275	2A		
3391	5D	9276	3A		
3392	5D	9277	3A		
3406	4D	9278	3A		
3407	3B	9279	3B		
3411	4D	9280	3B		
3412	4D	9281	2B		
3413	4D	9282	2B		
3415	4C	9283	2B		
3416	4C	9284	2B		
3420	4D	9285	2B		
3422	4C	9286	2B		
3423	5C	9287	2B		
3425	4C	9288	2B		
3426	3C	9289	3B		
3435	3B	9290	3B		
3446	5B	9291	2B		
3506	4A	9292	2B		
3507	4B	9293	3B		
3513	5C	9294	3D		
3516	4B	9295	3E		
3557	4A	9296	3E		
3582	3C	9297	1C		
3591	4C	9298	2C		
3597	4B	9299	3A		
5267	2A	9300	3A		
5272	3E	9301	3A		
5273	1C	9360	3B		
5384	4C	9361	3B		
5397	3B	9362	3A		
5398	3B	9364	4A		
5406	4D	9365	4A		
5407	4A	9366	3A		
5408	5B	9367	4A		
5409	5B	9368	3B		
5415	4C	9369	4A		
5416	4B	9370	5B		
5417	5C	9371	5B		
5418	5C	9372	4B		
5425	4C	9373	4B		
6230	1C	9374	4B		
6247	2E	9375	4B		
7200	2A	9376	4B		
7201	3D	9377	4B		

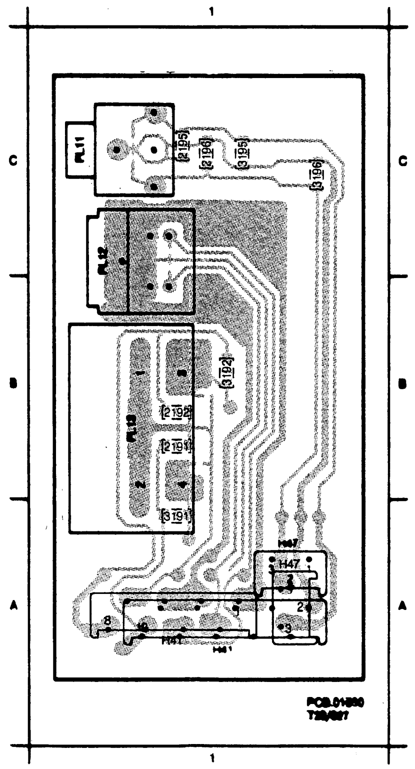
PCB.01789
T12/942

MAINSSWITCH PANEL


1
C
B
A
SK1
9101
9102
3180
Z57
Z60
PCB.01611
T28/927

3180	B	1
9101	B	1
9102	B	1
SK1	B	1
Z57	A	1
Z60	B	1

HEADPHONE PANEL


1
C
B
A
PL11
PL12
PL13
H47

2101	B	1
2102	B	1
2105	C	1
2106	C	1
3101	A	1
3102	B	1
3105	C	1
3106	C	1
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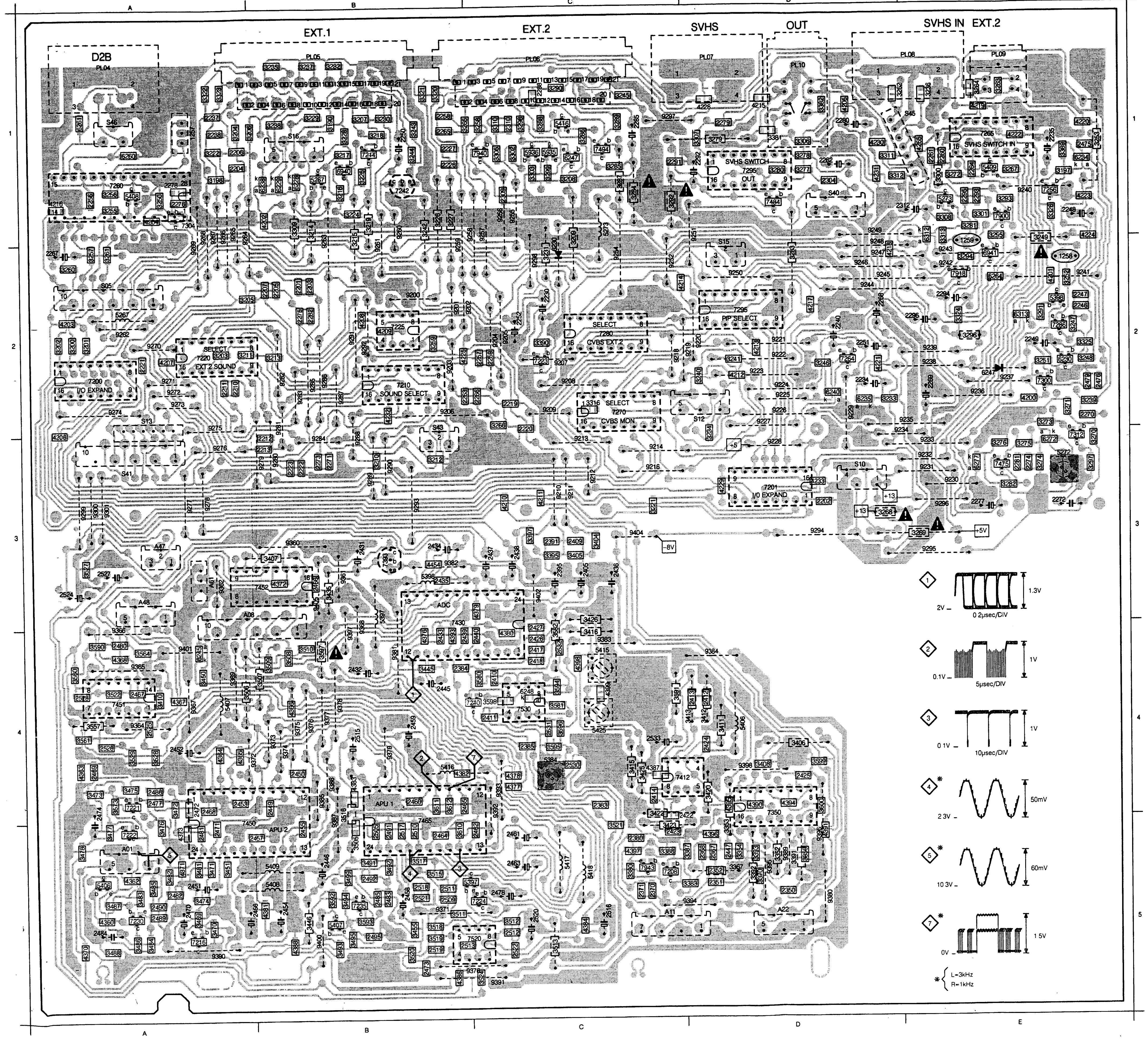

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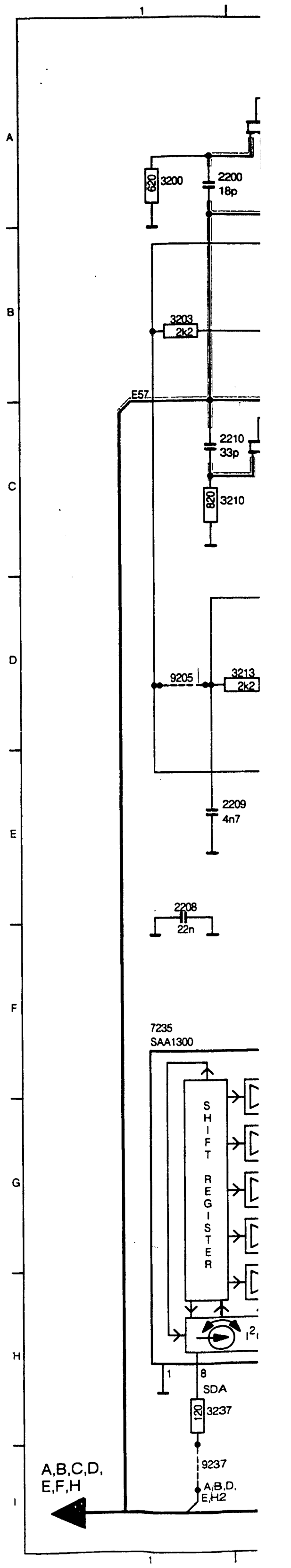

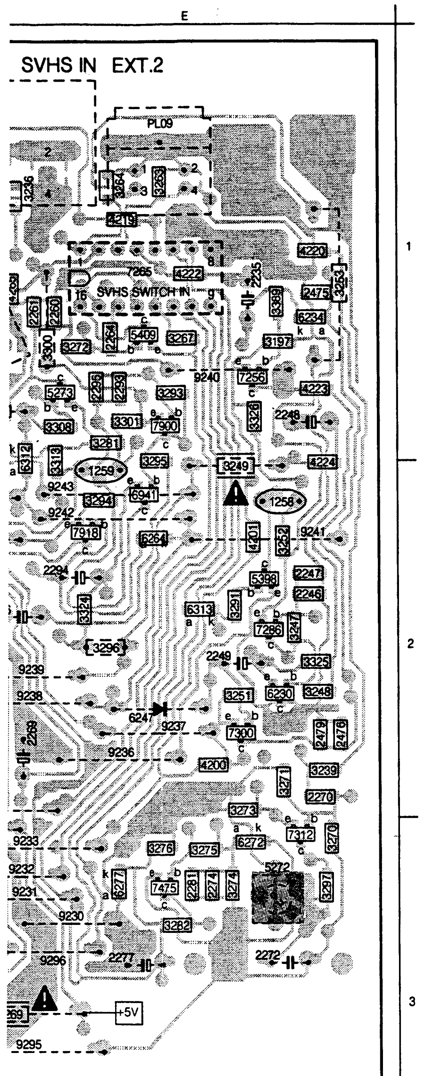
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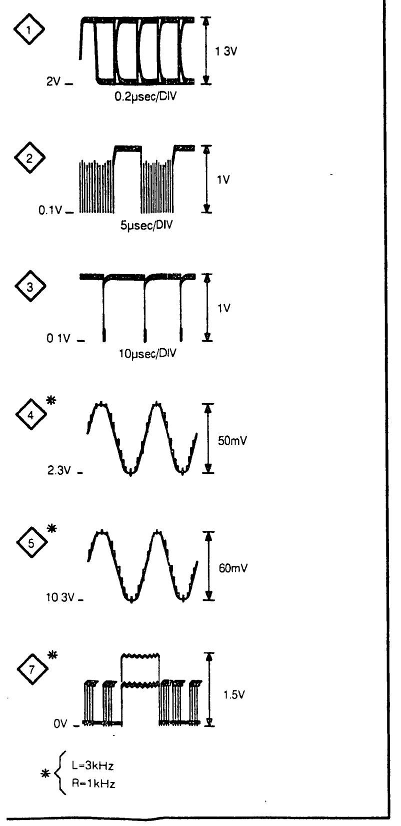

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3519	5B
3520	5B
3521	5C
3522	4A
3524	5C
3527	3A
3528	4A
3529	4A
3557	4A
3560	4A
3561	4A
3564	4A
3573	4A
3580	4C
3581	4C
3582	4C
3590	4A
3591	4C
3592	5B
3593	5B
3594	4C
3595	4C
3596	4C
3597	4B
3598	4C
3599	4D
3600	4D
3610	5B
3611	4B
3612	4B
4200	2E
4201	2E
4202	1B
4203	2A
4204	1A
4205	1D
4206	3A
4207	2A
4208	2B
4209	2B
4210	3C
4211	3C
4212	2D
4213	2D
4214	2D
4215	1D
4216	1A
4217	2D
4218	2D
4219	1E
4220	1E
4221	2D
4222	1E
4223	1E
4224	2E
4225	2C
4228	1D
4229	3D
4230	1D
4231	1D
4232	2B
4233	3D
4265	1E
4360	5A
4362	5A
4363	4A
4364	4A
4365	4A
4366	4B
4367	4A
4368	4A
4370	5A
4371	5A
4372	3B
4373	5A
4376	4B
4377	4C
4378	4C
4379	3C
4380	4C
4381	5B
4382	4B
4383	4B
4384	5C
4386	5B
4387	4C
4388	5B
4390	4D
4391	5D
4393	4B
4394	4D
4395	4D
4396	5D
4397	5C
4398	4C
4399	4C
4454	3B
5267	1B
5267	2A
5272	3E
5273	1C
5273	1E
5384	4C
5397	3B
5397	5B
5398	2E
5398	3B
5406	4D
5406	5A
5407	4A
5407	5B
5408	1A
5408	5B
5409	1E
5409	5B
5415	4C
5416	1C
5416	4B
5417	5C
5418	5C
5425	4C
5935	1C
5936	1C
6228	1B
6229	1B
6230	2C
6230	2E
6234	1E
6235	2D
6238	1B
6240	2D
6245	4A
6247	1C
6247	2E
6248	4C
6260	1A
6261	1A
6264	2E
6272	3E
6277	3E
6312	2E
6313	2E
6940	1B
6941	2E
7200	2A
7201	3D
7208	5C
7210	2B
7214	1B
7216	5A
7220	2A
7221	4A
7222	5A
7223	2C
7224	5C
7225	2B
7230	5A
7235	5B
7240	4B
7242	1B
7256	1E
7260	1A
7264	2D
7265	1E
7270	2C
7280	2C
7286	2E
7295	1D
7295	2D
7300	2E
7304	1A
7312	3E
7350	4D
7393	3B
7412	4C
7430	3B
7450	5A
7451	4A
7452	3B
7465	5B
7475	3E
7484	1D
7494	1C
7520	5B
7530	4C
7900	1E
7918	2E
7940	1C
7943	5C
9200	2B
9201	2B
9202	2C
9203	2B
9204	2C
9205	2C
9206	2B
9207	2C
9208	2C
9209	2C
9210	3C
9211	3C
9212	3C
9213	3C
9214	3C
9216	3C
9218	2C
9219	2D
9220	2D
9221	2D
9222	2D
9223	2D
9224	2D
9225	2D
9226	2D
9227	2D
9228	3D
9229	2D
9230	3E
9231	3E
9232	3E
9233	3E
9234	3D
9235	2D
9236	2E
9237	2E
9238	2E
9239	2E
9240	1E
9241	2E
9242	2E
9243	2E
9244	2D
9245	2D
9246	2D
9247	2D
9248	2D
9249	1D
9250	2D
9251	2D
9252	2C
9254	2C
9255	1C
9256	1C
9257	1C
9258	1C
9259	2B
9260	1B
9261	2B
9262	2A
9263	2B
9264	2A
9265	1A
9266	1A
9267	1A
9268	1A
9269	2A
9270	2A
9271	2A
9272	2A
9273	2A
9274	2A
9275	2A
9276	3A
9277	3A
9278	3A
9279	3B
9280	3B
9281	2B
9282	2B
9283	2B
9284	3B
9285	2B
9286	2B
9287	2B
9288	3B
9289	3B
9290	3B
9291	2B
9292	2B
9293	3B
9294	3D
9295	3E
9296	3E
9297	1C
9298	2C
9299	3A
9300	3A
9301	3A
9360	3B
9361	3B
9362	3A
9364	4A
9365	4A
9366	4A
9367	4A
9368	4B
9369	4A
9370	5B
9371	5B
9372	4B
9373	4B
9374	4B
9375	4B
9376	4B
9377	4B
9378	4B
9379	4B
9380	5D
9381	4B
9382	3B
9383	4C
9384	4D
9385	4B
9386	4B
9387	5B
9389	5D
9390	5A
9391	5C
9392	4C
9393	4C
9394	5C
9395	5D
9396	5D
9397	4B
9398	4D
9400	5B
9401	4A
9402	3C
9404	3C
9405	3B
PL04	1A
PL05	1B
PL06	1C
PL07	1D
PL08	1E
PL09	1E
PL10	1D

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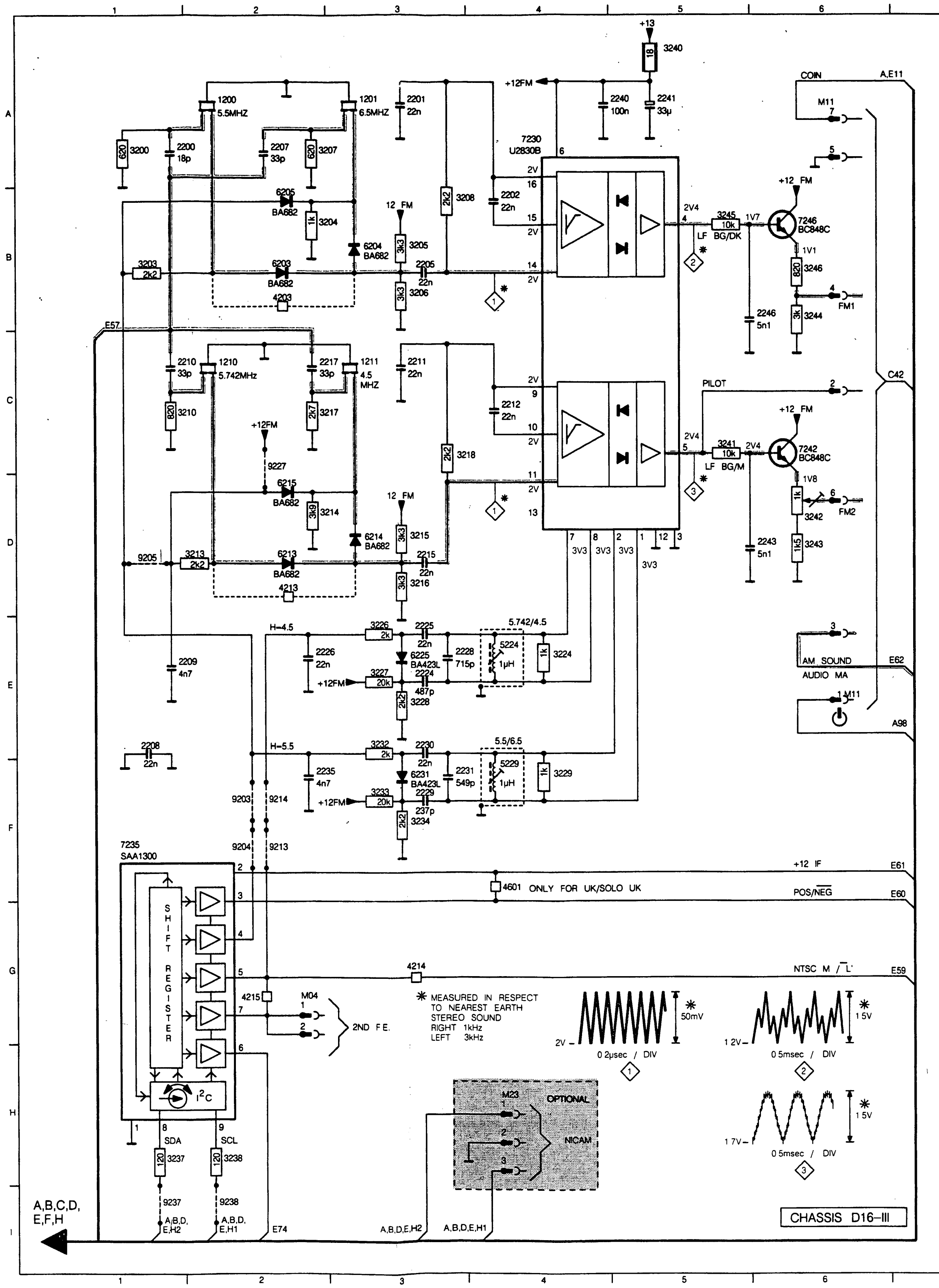
DIAGRAM-SCHALTBILD-SCHEMA G CHASSIS D16-III

17 CHASSIS D16-III

17 CHASSIS D16-III

1200-A2
1201-A3
1210-C2
1211-C3
2200-A1
2201-A3
2202-B4
2205-B3
2207-A2
2208-E1
2209-E1
2210-C1
2211-C3
2212-C4
2215-D3
2217-C2
2224-E3
2225-E3
2226-E2
2228-E3
2229-F3
2230-E3
2231-F3
2235-F2
2240-A4
2241-A5
2243-D6
2246-C6
3200-A1
3203-B1
3204-B2
3205-B3
3206-B3
3207-A2
3208-B3
3210-C1
3213-D1
3214-D2
3215-D3
3216-D3
3217-C2
3218-D3
3224-E4
3226-E3
3227-E3
3228-E3
3229-F4
3232-E3
3233-F3
3234-F3
3237-H1
3238-H2
3240-A5
3241-C5
3242-D6
3243-D6
3244-C6
3245-B5
3246-B6
4203-B2
4213-D2
4214-G3
4215-G2
4601-F4
5224-E4
5229-F4
6203-B2
6204-B3
6205-B2
6213-D2
6214-D3
6215-D2
6225-E3
6231-F3
7230-D5
7235-H2
7242-C6
7246-B6
9203-F2
9204-F2
9205-D1
9213-F2
9214-F2
9227-D2
9237-I 1
9238-I 2
M11 -A6
M23 -H4


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
+13
3240
18
+12FM
2240
100n
2241
33µ
1200
5.5MHZ
1201
6.5MHZ
2201
22n
3200
820
2200
18p
2207
33p
3207
620
7230
U2830B
6205
BA682
3204
1k
6206
BA682
3205
3k3
12 FM
3208
2k2
2202
22n
3203
2k2
6203
BA682
4203
2205
22n
3206
3k3
E57
2210
33p
1210
5.742MHz
2217
33p
1211
4.5 MHZ
2211
22n
3210
820
3217
2k7
+12FM
9227
2212
22n
3218
2k2
6215
BA682
3214
3k9
6214
BA682
3215
3k3
9205
3213
2k2
6213
BA682
4213
2215
22n
3216
3k3
2V4
3245
10k
1V7
7246
BC848C
1V1
3246
820
2246
5n1
3244
3k
LF BG/DK
+12 FM
FM1
PILOT
2V4
3241
10k
2V4
7242
BC848C
1V8
LF BG/M
3242
1k
2243
5n1
3243
1k5
FM2
7
8
3V3
3V3
3V3
3V3
COIN
A,E11
M11
C42
H=4.5
3226
2k
2225
22n
5.742/4.5
2226
22n
6225
BA423L
2228
715p
5224
1µH
3224
1k
3227
20k
2224
487p
+12FM
3228
2k2
AM SOUND
AUDIO MA
E62
M11
A98
2208
22n
2209
4n7
H=5.5
3232
2k
2230
22n
5.5/6.5
2235
4n7
6231
BA423L
2231
549p
5229
1µH
3229
1k
3233
20k
2229
237p
3234
2k2
9203
9214
9204
9213
7235
SAA1300
SHIFT REGISTER
I²C
+12 IF
E61
4601
ONLY FOR UK/SOLO UK
POS/NEG
E60
4214
NTSC M / L'
E59
4215
M04
2ND F.E.
* MEASURED IN RESPECT TO NEAREST EARTH STEREO SOUND RIGHT 1kHz LEFT 3kHz
50mV
2V
0.2µsec / DIV
1
*
1.5V
1.2V
0.5msec / DIV
2
*
1.5V
1.7V
0.5msec / DIV
3
M23
OPTIONAL
NICAM
SDA
SCL
3237
120
3238
120
9237
9238
A,B,D,E,H2
A,B,D,E,H1
E74
A,B,D,E,H2
A,B,D,E,H1
A,B,C,D,E,F,H
CHASSIS D16-III

SYSTEM 1:PAL BG,NTSC M,SECAM BG,SECAM L/L',SECAM DK (OPTIONAL)
SYSTEM 2:PAL BG,PAL I,SECAM BG,SECAM L/L'
SYSTEM 3:PAL BG,SECAM BG,SECAM L/L'
SYSTEM 4:PAL BG,SECAM DK (OPTIONAL)
SYSTEM 5:PAL BG
SYSTEM 6:PAL I

POS NR	SYSTEM NR 1	SYSTEM NR 2	SYSTEM NR 3	SYSTEM NR 4	SYSTEM NR 5	SYSTEM NR 6
1200	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6MHz
1201	✱ 6.5MHz	6.0MHz	–	✱ 6.5MHz	–	–
1210	5.74MHz	5.74MHz	5.74MHz	5.74MHz	5.74MHz	–
1211	4.5MHz	–	–	–	–	–
2200	18p	18p	18P	18p	18P	12p
2207	33p	12p	–	33p	–	–
2209	22n	22n	–	22n	–	–
2210	33p	33p	33p	33p	33p	–
2211	22n	22n	22n	22n	22n	–
2212	22n	22n	22n	22n	22n	–
2215	22n	22n	22n	22n	22n	–
2217	33p	–	–	–	–	–
2224	487p	–	–	–	–	–
2225	22n	–	–	–	–	–
2226	22n	–	–	–	–	–
2228	A715p	b715p	B715p	b715p	B715p	–
2229	237p	133p	–	237p	–	–
2230	22n	22n	–	22n	–	–
2231	A549p	A549p	B787p	A549p	B787p	b649p
2235	22n	22n	–	22n	–	–
2243	5n1	5n1	5n1	5n1	5n1	–
2246	b5n1	b5n1	b5n1	b5n1	b5n1	c5n1
3200	620	620	620	620	620	470
3203	2k2	2k2	–	2k2	–	–
3204	1k	1k	–	1k	–	–
3205	3k3	3k3	–	3k3	–	–
3206	3k3	3k3	–	3k3	–	–
3207	620	470	–	620	–	–
3208	2k2	2k2	910	2k2	910	620
3210	820	820	820	820	820	–
3213	2k2	–	–	–	–	–
3214	3k9	–	–	–	–	–
3215	3k3	–	–	–	–	–
3216	3k3	–	–	–	–	–
3217	2k7	–	–	–	–	–
3218	2k2	910	910	910	910	–
3224	1k	1k	1k	1k	1k	–
3226	2k	–	–	–	–	–
3227	20k	–	–	–	–	–
3228	2k2	–	–	–	–	–
3232	2k	2k	–	2k	–	–
3233	20k	20k	–	20k	–	–
3234	2k2	2k2	–	2k2	–	–
3237	120	120	120	120	–	–
3238	120	120	120	120	–	–
3241	10k	10k	10k	10k	10k	–
3242	1k	1k	1k	1k	1k	–
3243	2k4	2k4	2k4	2k4	2k4	–
4203	–	–	SMD JMP	–	SMD JMP	SMD JMP
4213	–	smd jmp	SMD JMP	smd jmp	SMD JMP	–
5224	1µ	1µ	1µ	1µ	1µ	–
6203	BA682	BA682	–	BA682	–	–
6205	BA682	BA682	–	BA682	–	–
6206	BA682	BA682	–	BA682	–	–
6213	BA682	–	–	–	–	–
6214	BA682	–	–	–	–	–
6215	BA682	–	–	–	–	–
6225	BA423L	–	–	–	–	–
6231	BA423L	BA423L	–	BA423L	–	–
7235	SAA1300	SAA1300	SAA1300	✱ SAA1300	–	–
7242	BC548C	BC548C	BC548C	BC548C	BC548C	–
9203	WRE JMP	WRE JMP	–	✱ WRE JMP	–	–
9204	WRE JMP	WRE JMP	–	✱ WRE JMP	–	–
9205	WRE JMP	WRE JMP	–	WRE JMP	–	–
9213	WRE JMP	WRE JMP	–	✱ WRE JMP	–	–
9214	WRE JMP	WRE JMP	–	✱ WRE JMP	–	–
9227	–	–	–	✱ WRE JMP	–	–
9237	WRE JMP	WRE JMP	WRE JMP	✱ WRE JMP	–	–
9238	WRE JMP	WRE JMP	WRE JMP	✱ WRE JMP	–	–

REMARKS:
✱ -OPTIONAL (ADDED BY SERVICE)
µ-OMITTED IF OPTION IS BUILT IN
A-1% VERSION
B-2% VERSION
C-5% VERSION

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T-04 941

DIAGRAM-SCHALTBILD-SCHEMA C

1350-A15
2100-A20
2101-A21
2102-A21
2103-B20
2104-B21
2105-B21
2107-B22
2108-B22
2110-A23
2112-A23
2113-A26
2137-D23
2139-E20
2140-E21
2141-E21
2142-F20
2143-F21
2144-F21
2146-F22
2147-F22
2150-E22
2153-E24
2154-E26
2160-C20
2162-D20
2165-C20
2191-I 23
2192-I 22
2195-I 20
2196-I 20
2197-I 24
2198-I 24
2350-E2
2352-E2
2365-A15
2367-F2
2370-H4
2380-H3
2383-D5
2384-D5
2385-D5
2391-B5
2395-A6
2405-B5
2409-B5
2410-C4
2411-C4
2414-E5
2417-E6
2424-G4
2425-G3
2427-F6
2431-H5
2432-C7
2433-C7
2434-C8
2435-C9
2436-C10
2437-B11
2438-B11
2439-F10
2440-E10
2445-G9
2446-I 5
2447-E3
2449-D14
2450-D12
2451-B13
2452-B13
2453-B14
2454-B14
2455-B14
2456-B15
2457-B15
2458-E12
2459-E13
2460-E13
2461-E14
2462-E14
2463-E15
2464-E15
2465-F16
2466-H8
2468-D15
2469-I 5
2470-I 5
2471-C17
2472-C18
2473-I 15
2474-B19
2477-B18
2478-I 15
2480-I 10
2481-E17
2482-E17
2484-D19
2490-E17
2491-F16
2505-G15
2510-I 15
2511-H15
2512-I 16
2513-H18
2515-G11
2516-H18
2517-J14
2518-J15
2519-J16
2520-J17
2522-H18
2524-H18
2525-I 11
2526-I 11
2527-J18
2528-I 10
2530-C2
2531-C2
2532-C2
2533-E4
3100-A20
3101-A21
3104-B21
3106-B21
3108-B22
3109-B22
3112-B23
3114-A25
3115-B25
3116-A24
3118-C21
3119-C22
3120-C23
3121-C22
3122-C22
3123-C23
3124-D23
3131-D21
3132-D21
3133-D22
3134-D24
3135-C22
3136-C22
3139-E20
3140-E21
3143-F21
3145-F21
3148-F22
3149-F22
3153-F24
3154-E24
3155-E24
3156-F24
3157-F24
3163-B22
3184-D24
3185-B24
3185-I 25
3186-I 25
3191-I 23
3192-I 23
3195-I 20
3196-I 20
3350-E2
3352-E2
3353-D3
3354-D3
3367-F2
3370-H3
3380-H4
3383-I 3
3387-I 4
3388-I 4
3391-E2
3392-I 2
3393-I 2
3395-A6
3397-A5
3404-B5
3405-B5
3406-I 2
3407-I 9
3408-J2
3410-H12
3411-E4
3412-E4
3413-D4
3415-E5
3416-E6
3420-G4
3422-F4
3423-F4
3425-F5
3426-G6
3435-G5
3445-G9
3446-I 5
3450-C12
3451-B13
3455-D12
3469-I 5
3470-H5
3471-B17
3472-B17
3473-C18
3474-I 5
3475-B18
3476-C18
3477-B18
3478-B18
3481-D17
3482-E17
3483-E18
3484-D18
3485-E18
3486-D18
3487-E18
3488-D18
3491-F16
3505-G15
3506-G12
3507-G12
3508-G8
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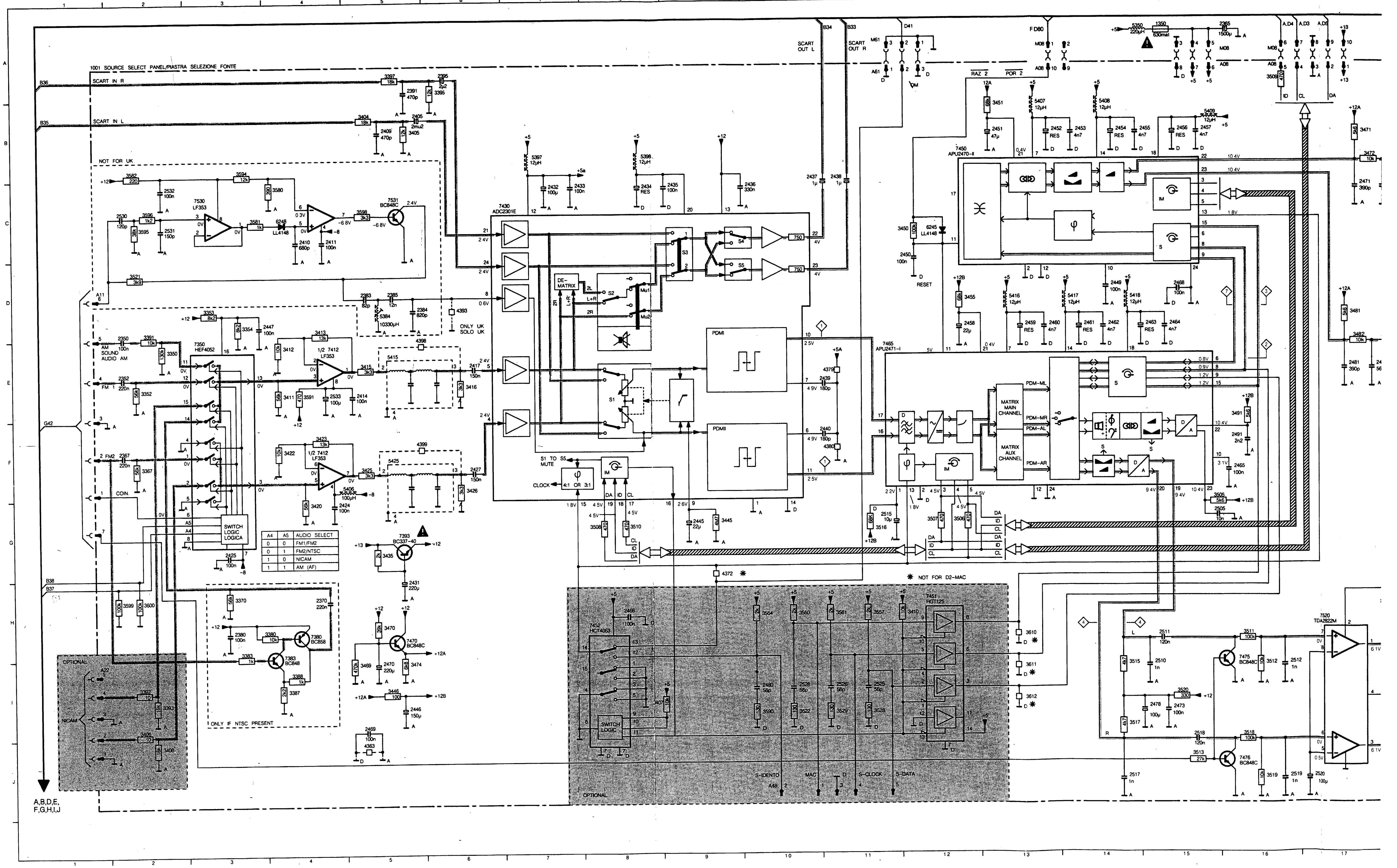
3513
3515
3516
3517


1001 SOURCE SELECT PANEL/PIASTRA SELEZIONE FONTE
SCART IN R
SCART IN L
NOT FOR UK
7530 LF353
7531 BC848C
ONLY UK SOLO UK
7350 HEF4052
AM SOUND AUDIO AM
FM
COIN
SWITCH LOGIC LOGICA
1/2 7412 LF353
7393 BC337-40
ONLY IF NTSC PRESENT
7380 BC858
7383 BC848
7470 BC848C
OPTIONAL
NICAM
7430 ADC2301E
DE-MATRIX
S1 TO S5 MUTE
CLOCK
4:1 OR 3:1
PDMI
PDMII
SCART OUT L
SCART OUT R
RESET
7450 APU2470-II
7465 APU2471-I
MATRIX MAIN CHANNEL
MATRIX AUX CHANNEL
PDM-ML
PDM-MR
PDM-AL
PDM-AR
RAZ 2
POR 2
NOT FOR D2-MAC
7452 HCT4053
7451 HGT125
SWITCH LOGIC
S-IDENTO
MAC
S-CLOCK
S-DATA
OPTIONAL
7520 TDA2822M
7475 BC848C
7476 BC848C
A,B,D,E, F,G,H,I,J

3112-B23
3114-A25
3115-B25
3116-A24
3118-C21
3119-C22
3120-C23

3121-C22
3122-C22
3123-C23
3124-D23
3131-D21
3132-D21
3133-D22

3134-D24
3135-C22
3136-C22
3139-E20
3140-E21
3143-F21
3145-F21

3148-F22
3149-F22
3153-F24
3154-E24
3155-E24
3156-F24
3157-F24

3163-B22
3184-D24
3185-B24
3185-I 25
3186-I 25
3191-I 23
3192-I 23

3195-I 20
3196-I 20
3350-E2
3352-E2
3353-D3
3354-D3
3367-F2

3370-H3
3380-H4
3383-I 3
3387-I 4
3388-I 4
3391-E2
3392-I 2

3393-I 2
3395-A6
3397-A5
3404-B5
3405-B5
3406-I 2
3407-I 9

3408-J2
3410-H12
3411-E4
3412-E4
3413-D4
3415-E5
3416-E6

3420-G4
3422-F4
3423-F4
3425-F5
3426-G6
3435-G5
3445-G9

3446-I 5
3450-C12
3451-B13
3455-D12
3469-I 5
3470-H5
3471-B17

3472-B17
3473-C18
3474-I 5
3475-B18
3476-C18
3477-B18
3478-B18

3481-D17
3482-E17
3483-E18
3484-D18
3485-E18
3486-D18
3487-E18

3488-D18
3491-F16
3505-G15
3506-G12
3507-G12
3508-G8
3509-A16

3510-G8
3511-H16
3512-I 16
3513-J15
3515-I 14
3516-G11
3517-J14

3518-J16
3519-J16
3520-I 15
3521-D2
3522-I 10
3524-H18
3527-J18

3528-I 11
3529-I 11
3557-H11
3560-H10
3561-H11
3564-H10
3573-C18

3580-C4
3581-C4
3582-B2
3590-I 10
3591-E4
3594-B3
3595-C2

3596-C2
3597-H18
3598-C5
3599-H2
3600-H2
3610-H13
3611-I 13

3612-I 13
4100-B26
4102-C26
4363-J5
4372-G9
4379-E11
4380-F11

4393-D6
4398-E5
4399-F5
5350-A14
5384-D5
5397-B7
5398-B8

5406-F4
5407-B13
5408-B14
5409-B15
5415-E5
5416-D13
5417-D14

5418-D14
5425-F5
5425-G6
6120-C23
6136-D22
6137-D22
6140-A23

6150-E25
6245-C12
6248-C4
7100-A22
7122-C22
7123-C22
7124-C23

7130-D21
7133-D21
7137-D22
7140-E22
7141-C20
7142-C24
7143-C24

7350-G3
7380-H4
7383-I 3
7393-G5
7412-E4
7430-G7
7450-D12

7465-F12
7470-H5
7473-B18
7474-B18
7475-I 15
7476-J15
7483-E18

7484-D18
7520-J17
7530-C4
7531-C5
9110-B26
9700-F25
9708-E24

9709-F26
9713-A23
9714-C25
9715-C26
A01 -C19
A08 -A13
A11 -D1

A22 -I 1
A47 -H19
A61 -A11
H41 -J21
H47 -H20
H50 -H24
M01 -A20

M02 -C26
M08 -A13
M14 -F26
M33 -E26
M34 -C26
M61 -A11
PL01-A26

PL02-A25
PL11-I 21
PL12-I 22
PL13-I 23
PL15-I 25
SWI -C25

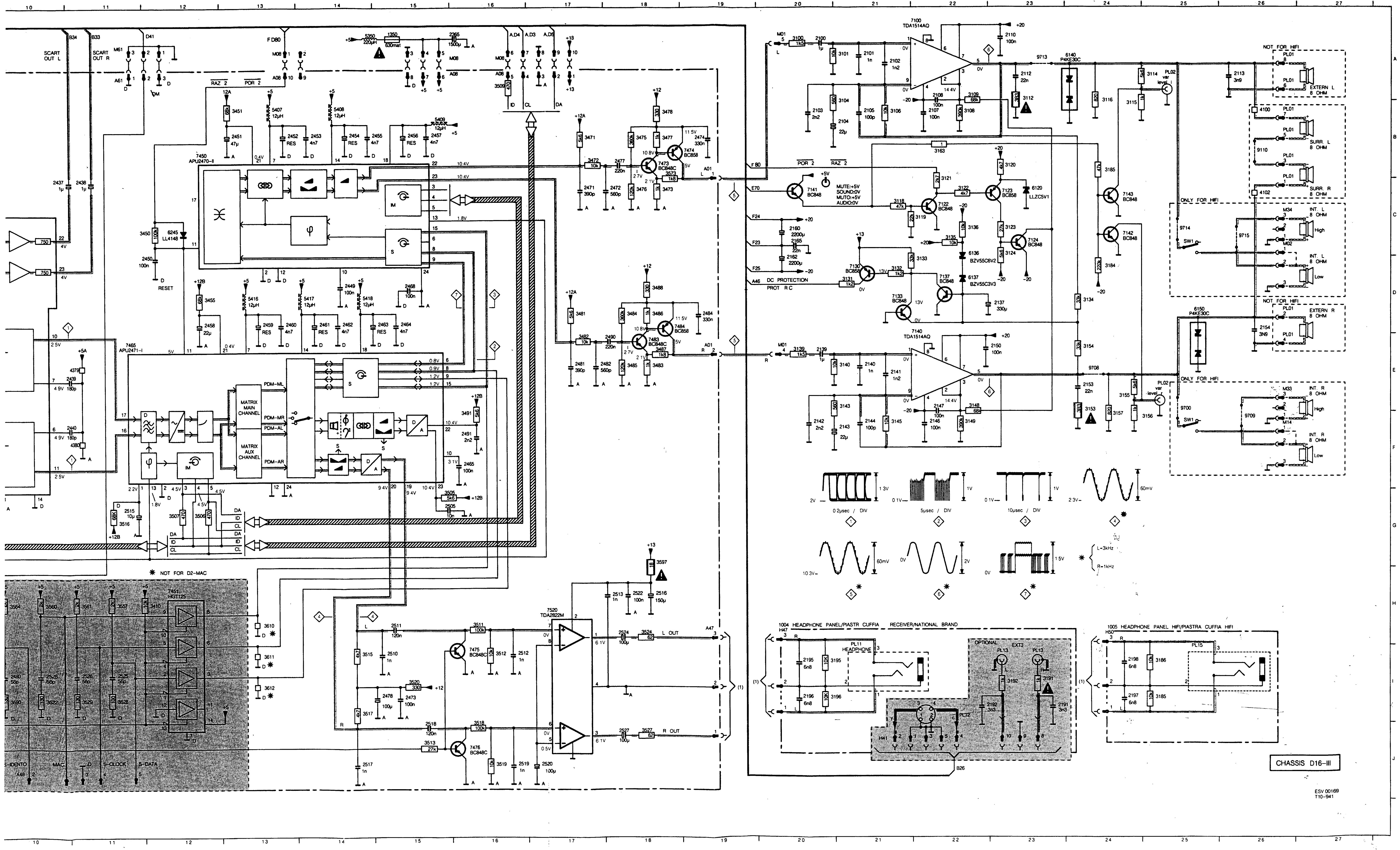
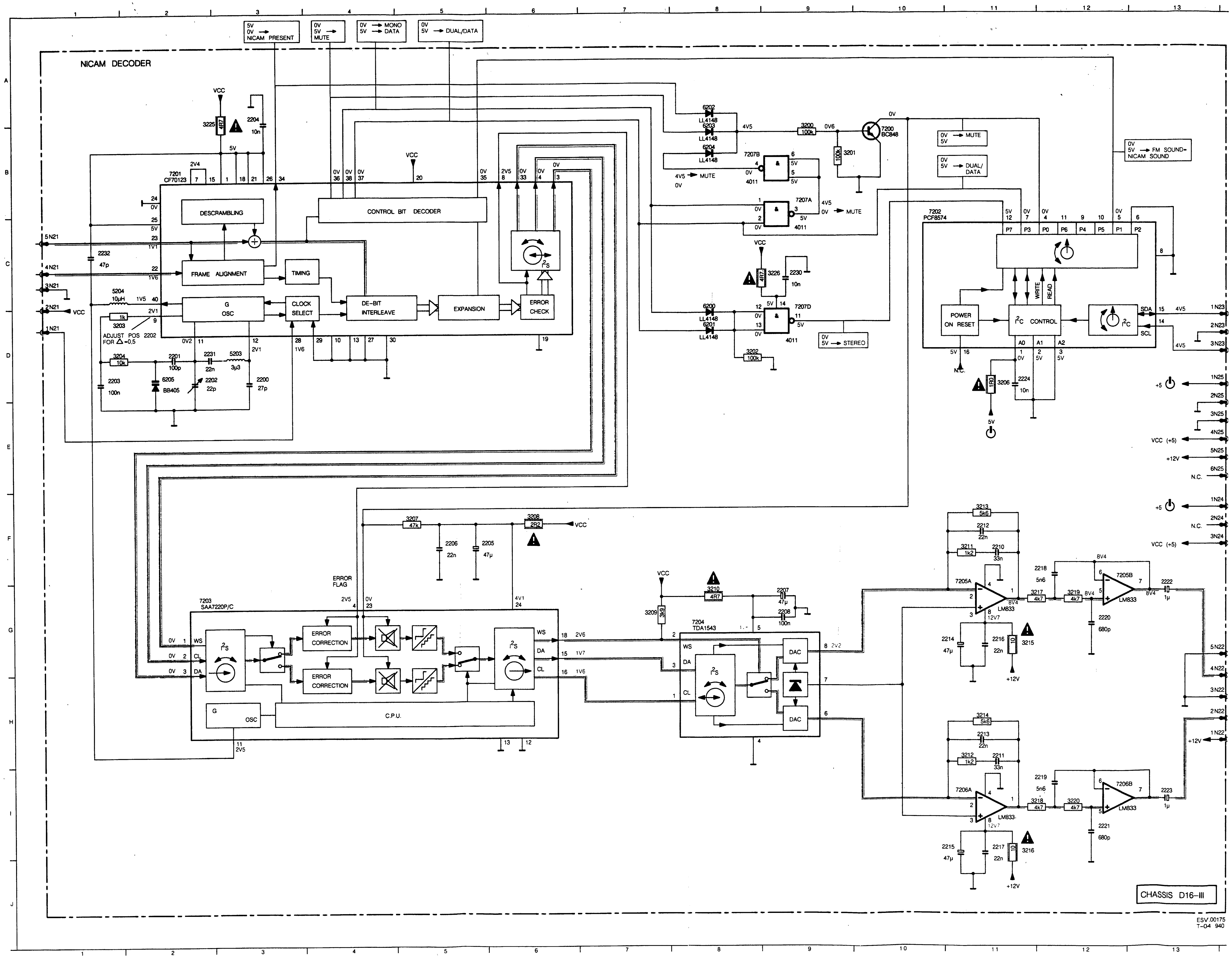
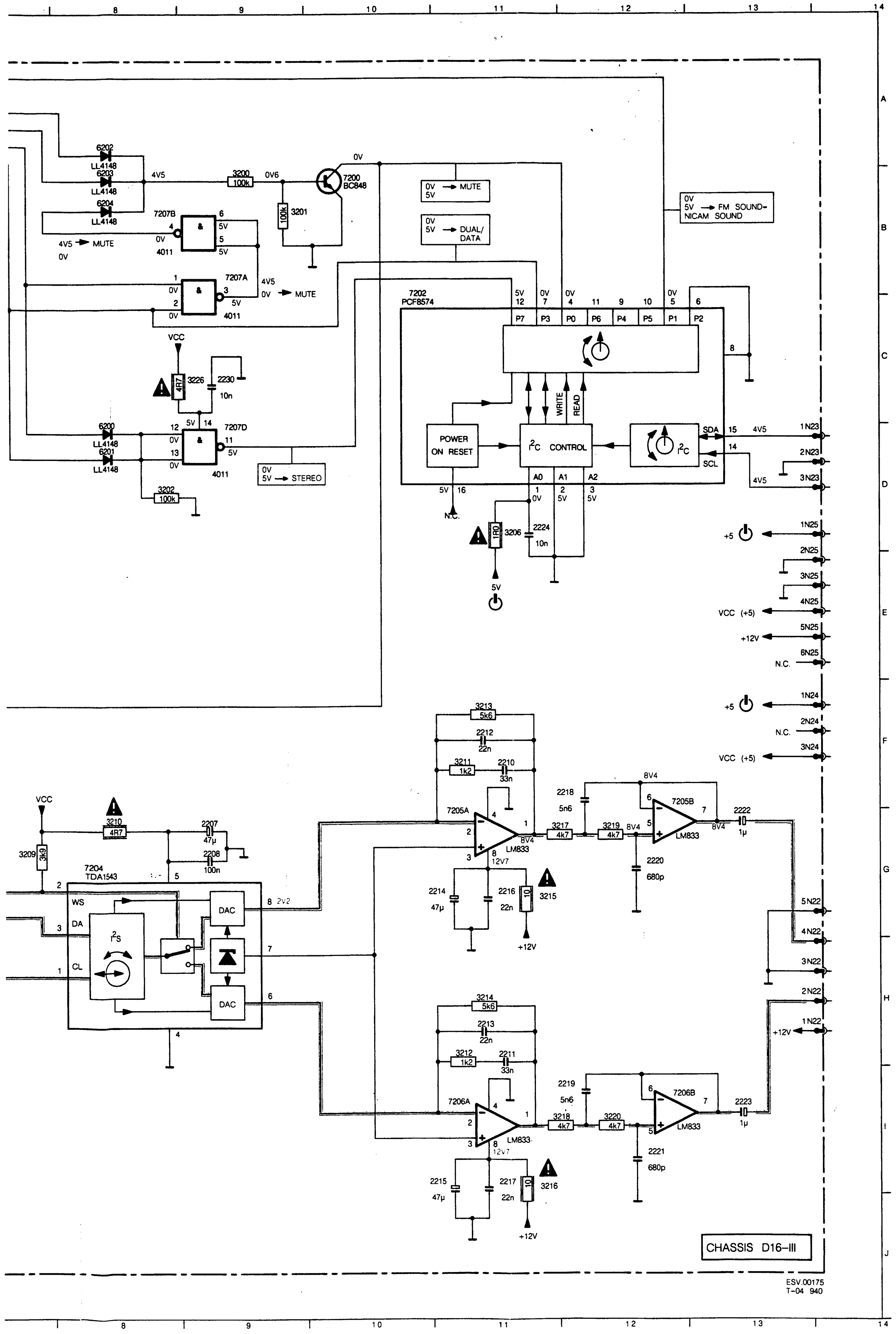

SCART OUT L
SCART OUT R
FD80
7450 APU2470-II
7465 APU2471-I
7100 TDA1514AQ
7140 TDA1514AQ
7520 TDA2822M
7451 HGT125
MATRIX MAIN CHANNEL
MATRIX AUX CHANNEL
PDM-ML
PDM-MR
PDM-AL
PDM-AR
RESET
DC PROTECTION
PROT R C
MUTE:+5V
SOUND:0V
MUTO:+5V
AUDIO:0V
NOT FOR HIFI
ONLY FOR HIFI
EXTERN L 8 OHM
SURR. L 8 OHM
SURR. R 8 OHM
INT. L 8 OHM
INT. R 8 OHM
EXTERN R 8 OHM
High
Low
L OUT
R OUT
* NOT FOR D2-MAC
S-IDENTO
MAC
S-CLOCK
S-DATA
1004 HEADPHONE PANEL/PIASTR CUFFIA RECEIVER/NATIONAL BRAND
1005 HEADPHONE PANEL HIFI/PIASTRA CUFFIA HIFI
HEADPHONE
OPTIONAL
EXT3
0.2µsec / DIV
5µsec / DIV
10µsec / DIV
L=3kHz
R=1kHz
CHASSIS D16-III
ESV 00169
T10-941

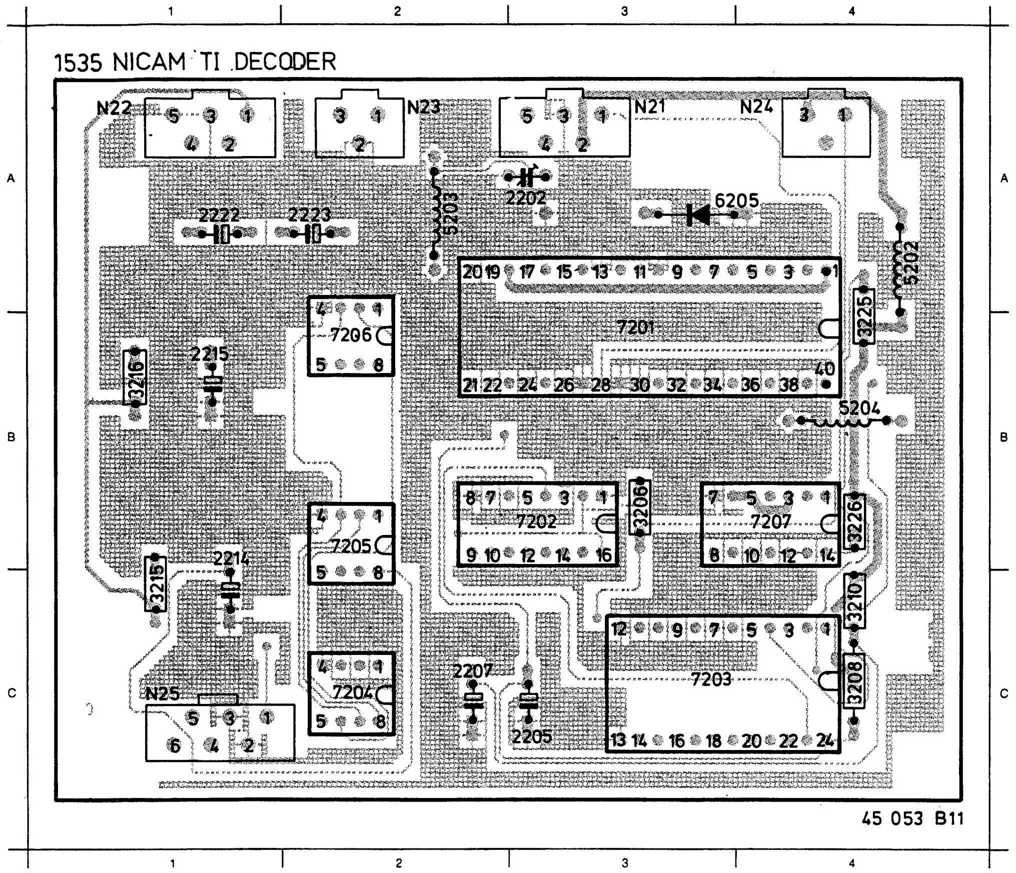
DIAGRAM-SCHALTBILD-SCHEMA I


NICAM DECODER
5V 0V → NICAM PRESENT
0V 5V → MUTE
0V → MONO 5V → DATA
0V 5V → DUAL/DATA
7201 CF70123
DESCRAMBLING
CONTROL BIT DECODER
FRAME ALIGNMENT
TIMING
G OSC
CLOCK SELECT
DE-BIT INTERLEAVE
EXPANSION
ERROR CHECK
ADJUST POS 2202 FOR Δ=0,5
5N21
4N21
3N21
2N21
1N21
VCC
3225 4R7
2204 10n
2232 47p
5204 10µH
3203 1k
3204 10k
2203 100n
2201 100p
6205 BB405
2231 22n
2202 22p
5203 3µ3
2200 27p
6202 LL4148
6203 LL4148
6204 LL4148
6200 LL4148
6201 LL4148
3200 100k
3201 100k
7200 BC848
7207B 4011
7207A 4011
7207D 4011
4V5 → MUTE
0V → MUTE
0V 5V → STEREO
3226 4R7
2230 10n
3202 100k
0V → MUTE 5V
0V 5V → DUAL/DATA
0V 5V → FM SOUND= NICAM SOUND
7202 PCF8574
POWER ON RESET
I²C CONTROL
WRITE
READ
SDA
SCL
3206 1R0
2224 10n
N.C.
1N23
2N23
3N23
1N25
2N25
3N25
4N25
5N25
6N25
VCC (+5)
+12V
1N24
2N24
3N24
+5
3207 47k
3208 2R2
2206 22n
2205 47µ
ERROR FLAG
7203 SAA7220P/C
WS
CL
DA
ERROR CORRECTION
ERROR CORRECTION
G OSC
C.P.U.
3209 3k9
3210 4R7
2207 47µ
2208 100n
7204 TDA1543
DAC
DAC
3213 5k6
2212 22n
3211 1k2
2210 33n
7205A LM833
7205B LM833
2218 5n6
3217 4k7
3219 4k7
2220 680p
2214 47µ
2216 22n
3215 10
2222 1µ
3214 5k6
2213 22n
3212 1k2
2211 33n
7206A LM833
7206B LM833
2219 5n6
3218 4k7
3220 4k7
2221 680p
2215 47µ
2217 22n
3216 10
2223 1µ
5N22
4N22
3N22
2N22
1N22
CHASSIS D16-III
ESV.00175 T-04 940


6202
LL4148
6203
LL4148
6204
LL4148
6200
LL4148
6201
LL4148
4V5
3200
100k
0V6
3201
100k
7200
BC848
0V
7207B
4011
7207A
4011
7207D
4011
4V5 → MUTE
0V → MUTE
0V
5V → MUTE
0V
5V → DUAL/ DATA
0V
5V → FM SOUND-NICAM SOUND
0V
5V → STEREO
VCC
3226
4R7
2230
10n
3202
100k
7202
PCF8574
POWER ON RESET
I²C CONTROL
I²C
WRITE
READ
SDA
SCL
A0
A1
A2
N.C.
3206
1R0
2224
10n
5V
1N23
2N23
3N23
1N25
2N25
3N25
4N25
5N25
6N25
1N24
2N24
3N24
VCC (+5)
+12V
N.C.
3213
5k6
2212
22n
3211
1k2
2210
33n
7205A
7205B
LM833
2218
5n6
3217
4k7
3219
4k7
8V4
2220
680p
2222
1µ
2214
47µ
2216
22n
3215
12V7
+12V
3210
4R7
2207
47µ
2208
100n
3209
3k9
7204
TDA1543
WS
DA
CL
DAC
2V2
5N22
4N22
3N22
2N22
1N22
3214
5k6
2213
22n
3212
1k2
2211
33n
7206A
7206B
2219
5n6
3218
4k7
3220
4k7
2221
680p
2223
1µ
2215
47µ
2217
22n
3216
CHASSIS D16–III
ESV.00175
T-04 940

2200-D3
2201-D2
2202-D2
2203-D2
2204-B3
2205-F5
2206-F5
2207-G9
2208-G9
2210-F11
2211-H11
2212-F11
2213-H11
2214-G11
2215-J11
2216-G11
2217-J11
2218-G12
2219-I 12
2220-G12
2221-I 12
2222-G13
2223-I 13
2224-D11
2230-C9
2231-D3
2232-B2
3200-B9
3201-B9
3202-D9
3203-D2
3204-D2
3206-E11
3207-F5
3208-F6
3209-G7
3210-G8
3211-F11
3212-H11
3213-F11
3214-H11
3215-G11
3216-J11
3217-G11
3218-I 11
3219-G12
3220-I 12
3225-B3
3226-C9
5203-D2
5204-G1
6200-D8
6201-D8
6202-A8
6203-B8
6204-B8
6205-D2
7200-B10
7201-D2
7202-D10
7203-H2
7204-H8
7205-G11
7206-J11
7207-B9
N21 -D1
N22 -H14
N23 -D14
N25 -E14

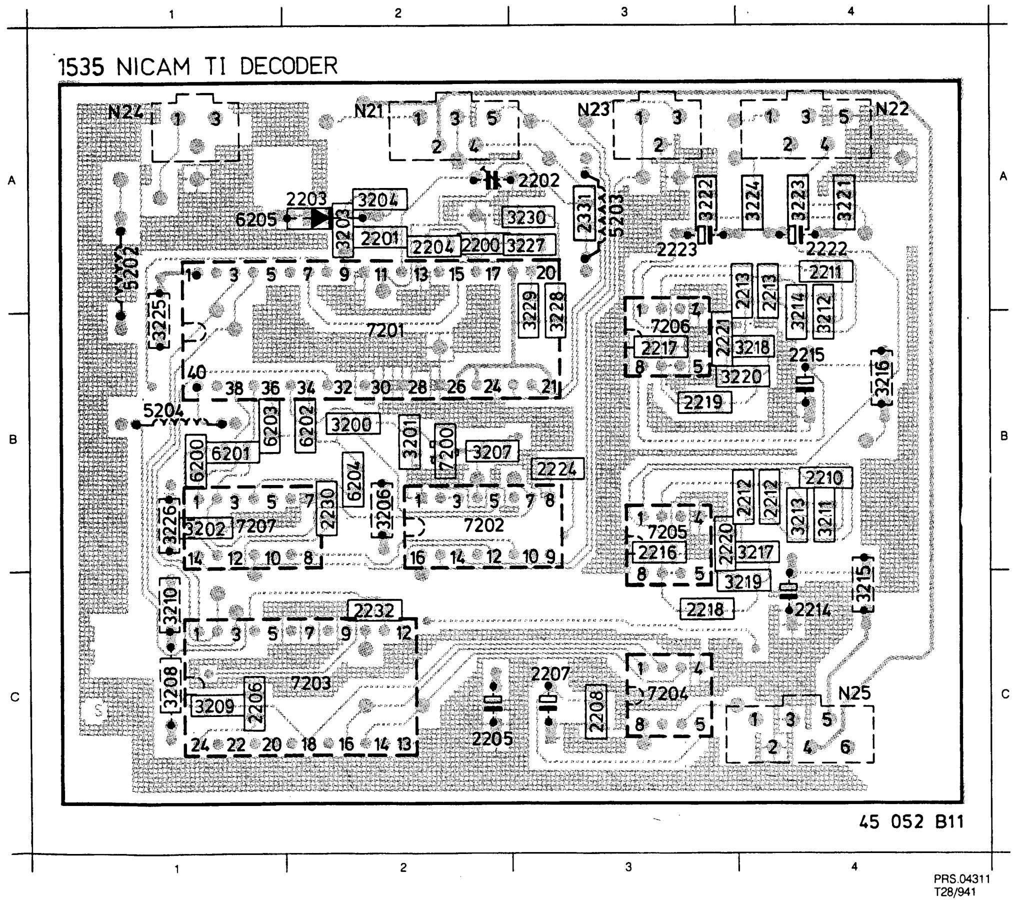
NICAM DECODER


1535 NICAM TI DECODER
N22
N23
N21
N24
N25
2222
2223
2202
3203
6205
5202
7201
7206
2215
3216
3225
5204
7205
7202
7207
3206
3226
2214
3215
3210
7204
2207
2205
7203
3208
45 053 B11

PRS.04310
T28/941
45053B

2202	A	3
2205	C	3
2207	C	3
2214	B	1
2215	B	1
2222	A	1
2223	A	2
3206	B	3
3208	C	4
3210	C	4
3215	C	1
3216	B	1
3225	A	4
3226	B	4
5202	A	4
5203	A	2
5204	B	4
6205	A	4
7201	B	3
7202	B	3
7203	C	4
7204	C	2
7205	B	2
7206	B	2
7207	B	4
N021	A	3
N022	A	1
N023	A	2
N024	A	4
N025	C	1

NICAM DECODER

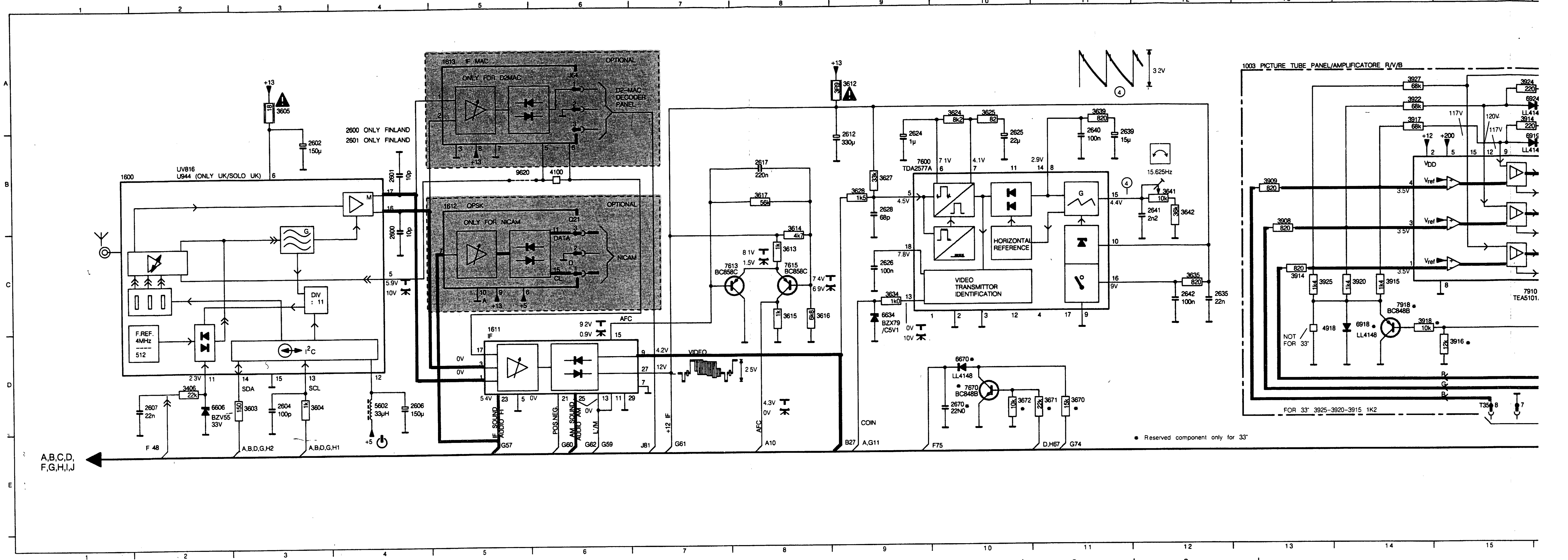

1535 NICAM TI DECODER
N24
N21
N23
N22
N25
2203
3204
6205
3203
2201
2204
2200
3227
3230
2202
2331
5203
3222
3224
3223
3221
2223
2222
2211
5202
3225
7201
3229
3228
7206
2217
3218
3220
2215
2219
3216
5204
6203
6202
3200
3201
7200
3207
2224
6200
6201
6204
3206
3226
3202
7207
2230
7202
2212
2210
3213
3211
7205
2216
2220
3217
3219
2218
2214
3215
3210
2232
3208
3209
2206
7203
2207
2208
7204
2205
45 052 B11

PRS.04311
T28/941
45052B

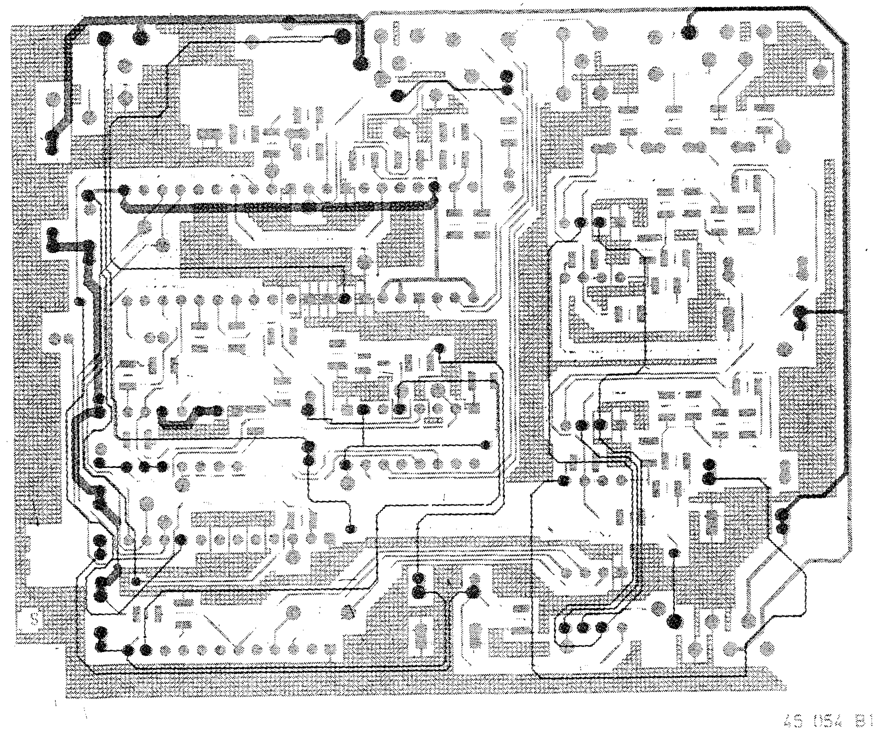
2200	A	3
2201	A	2
2202	A	3
2203	A	2
2204	A	2
2205	C	3
2206	C	2
2207	C	3
2208	C	3
2210	B	4
2211	A	4
2212	B	4
2212	B	4
2213	A	4
2213	A	4
2214	C	4
2215	B	4
2216	B	3
2217	B	3
2218	C	4
2219	B	4
2220	B	4
2221	B	4
2222	A	4
2223	A	3
2224	B	3
2230	B	2
2232	C	2
2331	A	3
3200	B	2
3201	B	2
3202	B	1
3203	A	2
3204	A	2
3206	B	2
3207	B	3
3208	C	1
3209	C	1
3210	C	1
3211	B	4
3212	A	4
3213	B	4
3214	A	4
3215	B	4
3216	B	4
3217	B	4
3218	B	4
3219	B	4
3220	B	4
3221	A	4
3222	A	4
3223	A	4
3224	A	4
3225	A	1
3226	B	1
3227	A	3
3228	A	3
3229	A	3
3230	A	3
5202	A	1
5203	A	3
5204	B	1
6200	B	1
6201	B	1
6202	B	2
6203	B	2
6204	B	2
6205	A	2
7200	B	2
7201	A	2
7202	B	3
7203	C	2
7204	C	3
7205	B	3
7206	A	3
7207	B	2
N021	A	2
N022	A	4
N023	A	3
N024	A	1
N025	C	4

DIAGRAM-SCHALTBILD-SCHEMA E

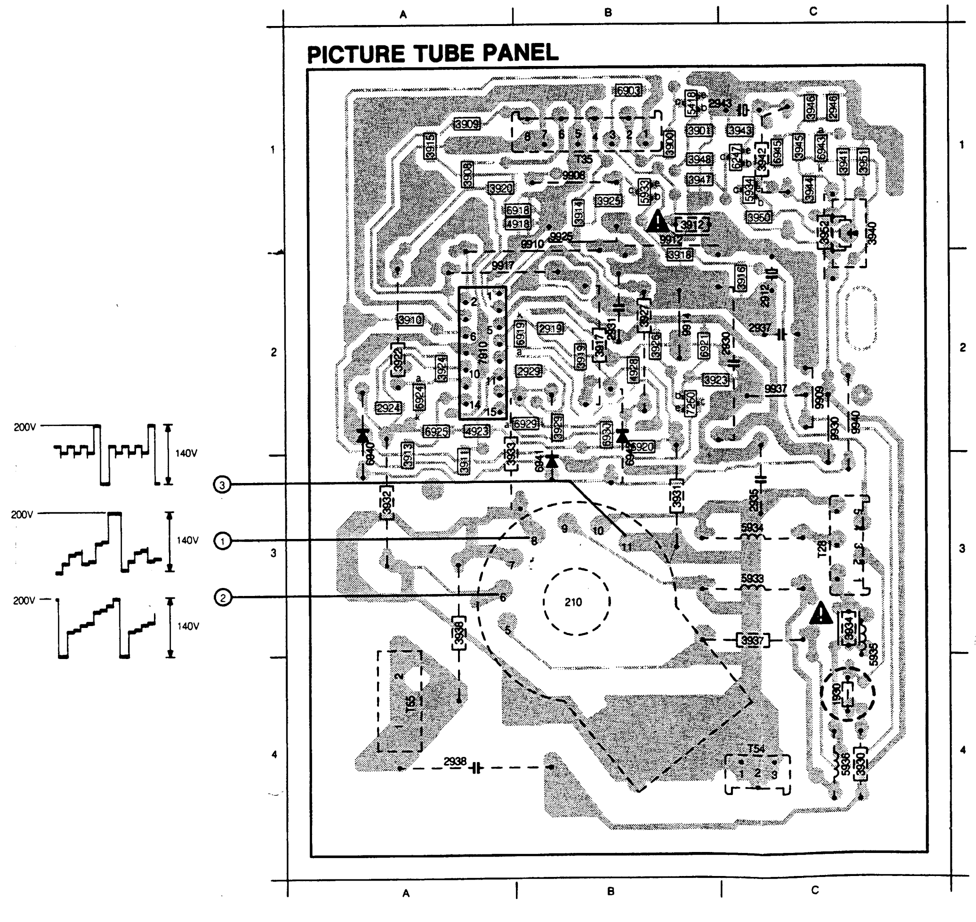
1599-A24
1600-D1
1611-D5
1612-C5
1613-A5
1930-D20
2600-B4
2601-B4
2602-B3
2604-D3
2606-D4
2607-D2
2612-B9
2617-B8
2624-B9
2625-B10
2626-C9
2628-C9
2635-C12
2639-B11
2640-B11
2641-C12
2642-C12
2670-D10
2912-D17
2914-B16
2924-A16
2929-A17
2930-D20
2935-D22
2937-D22
2938-D23
2943-C17
2946-C18
3406-D2
3603-D3
3604-D3
3605-A3
3612-A9
3613-C8
3614-C8
3615-D8
3616-D8
3617-B8
3624-A10
3625-A10
3627-B9
3628-B9
3634-C9
3635-C12
3639-A11
3641-B12
3642-C12
3670-D11
3671-D11
3672-D10
3900-D18
3901-D18
3908-C13
3909-B13
3910-B16
3911-C16
3912-D16
3913-C16
3914-B15
3914-C13
3915-C14
3916-D15
3917-B14
3918-D14
3920-C14
3922-A14
3923-C19
3924-A15
3925-C13
3926-C19
3927-A14
3929-A17
3930-D20
3931-B21
3932-B21
3933-B21
3934-C20
3937-C22
3938-D23
3940-B17
3941-C17
3942-C17
3943-C17
3944-C17
3945-C18
3946-C18
3947-D17
3948-D18
3950-B17
3951-C17
4100-B6
4918-D13
4923-C20
5602-D4
5933-C21
5934-C21
5936-D21
5939-C20
6345-C18
6606-D2
6634-C9
6670-D10
6918-D14
6919-B16
6920-B19
6921-C19
6924-A1
6925-B2
6929-B1
6930-B2


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
+13
3605
2602 150µ
2600 ONLY FINLAND
2601 ONLY FINLAND
1600
UV816
U944 (ONLY UK/SOLO UK)
1613 IF MAC
OPTIONAL
ONLY FOR D2MAC
D2-MAC DECODER PANEL
9620
4100
1612 QPSK
ONLY FOR NICAM
DATA
NICAM
CL
F.REF. 4MHz 512
DIV : 11
I²C
3406 22k
2607 22n
6606 BZV55 33V
150
3603
SDA
2604 100p
1k 3604
SCL
5602 33µH
2606 150µ
+5
F 48
A,B,D,G,H2
A,B,D,G,H1
A,B,C,D, F,G,H,I,J
1611 IF
AFC
9.2V
0.9V
VIDEO
2.5V
IF SOUND
AUDIO FI
POS.NEG.
AM SOUND
AUDIO AM
L/M
G57
G60
G62
G59
J81
+12 IF
G61
AFC
A10
B27
A,G11
COIN
F75
D,H67
G74
2617 220n
3617 56k
3614 4k7
3613
7613 BC858C
7615 BC858C
3615
3616
3612
2612 330µ
3627
3628 1k5
2628 68p
2626 100n
3634 1k0
6634 BZX79 /C5V1
3624 8k2
3625 82
2624 1µ
2625 22µ
7600 TDA2577A
HORIZONTAL REFERENCE
VIDEO TRANSMITTOR IDENTIFICATION
3639 820
2640 100n
2639 15µ
3.2V
15.625Hz
3641 10k
2641 2n2
3642
3635 820
2642 100n
2635 22n
6670
LL4148
7670 BC848B
2670 22N0
3672
3671
3670
Reserved component only for 33"
1003 PICTURE TUBE PANEL/AMPLIFICATORE R/V/B
3927 68k
3922 68k
3917 68k
3924 220
3914 220
117V
120V
VDD
Vref
3909 820
3908 820
820 3914
3925
3920
3915
7918 BC848B
6918 LL4148
4918
NOT FOR 33"
3918 10k
3916
FOR 33" 3925-3920-3915 1K2
7910 TEA5101

NICAM DECODER



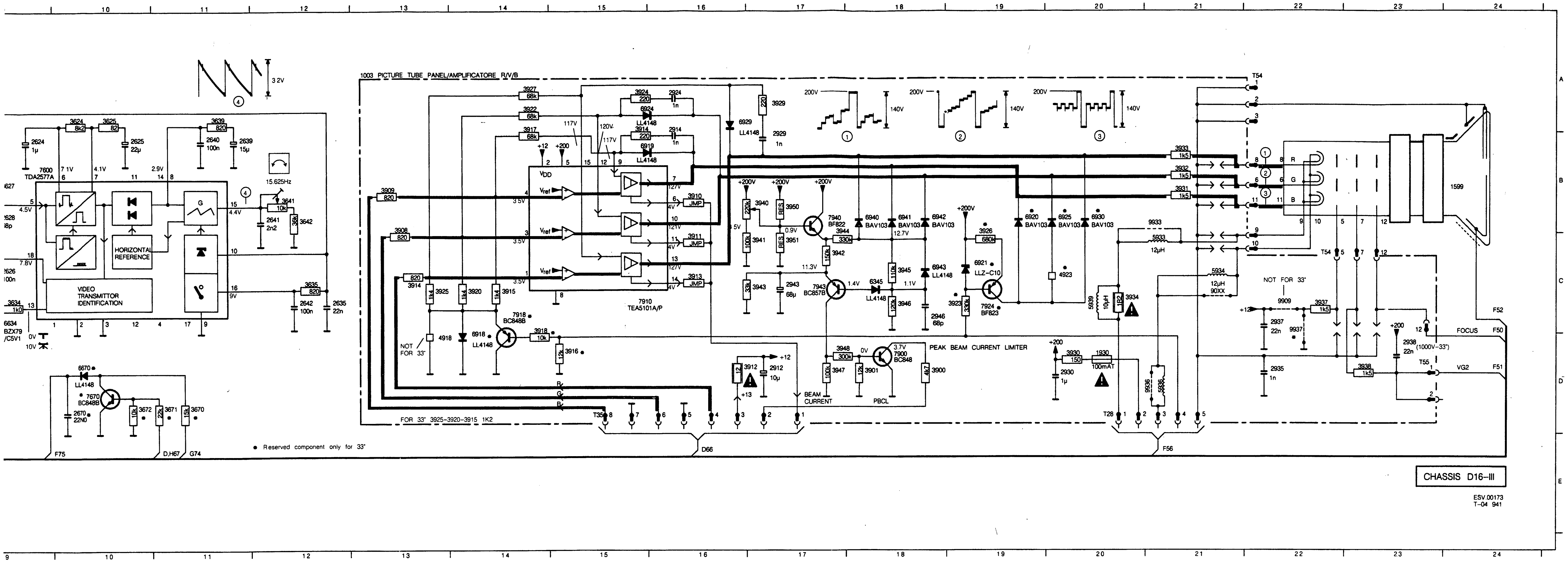
PICTURE TUBE PANEL

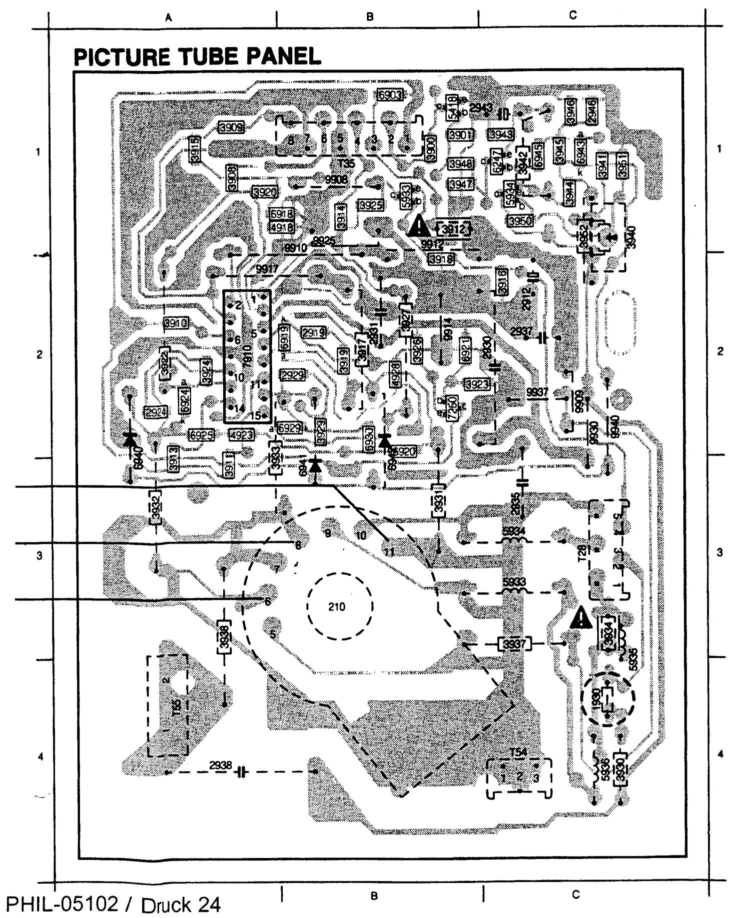

A
B
C
1
2
3
4
200V
140V
210
T35
T54
T55
2938
7910

1930	C	4
210	B	3
2912	C	2
2919	B	2
2924	A	2
2929	A	2
2930	C	2
2931	B	2
2935	C	3
2937	C	2
2938	A	4
2943	B	1
2946	C	1
3900	B	1
3901	B	1
3908	A	1
3909	A	1
3910	A	2
3911	A	3
3912	B	1
3913	A	3
3914	B	1
3915	A	1
3916	C	2
3917	B	2
3918	B	2
3919	B	2
3920	A	1
3922	A	2
3923	B	2
3924	A	2
3925	B	1
3926	B	2
3927	B	2
3929	B	3
3930	C	4
3931	B	3
3932	A	3
3933	A	3
3934	C	3
3937	C	3
3938	A	4
3940	C	2
3941	C	1
3942	C	1
3943	B	1
3944	C	1
3945	C	1
3946	C	1
3947	B	1
3948	B	1
3950	C	1
3951	C	1
3952	C	2
4918	A	1
4923	A	2
4928	B	2
5418	B	1
5933	C	3
5933	B	1
5934	C	3
5934	C	1
5935	C	4
5936	C	4
6247	C	1
6903	B	1
6918	A	1
6919	B	2
6920	B	2
6921	B	2
6924	A	2
6925	A	2
6929	A	2
6930	B	3
6940	A	3
6941	B	3
6942	B	3
6943	C	1
6945	C	1
7250	B	2
7910	A	2
9908	B	1
9909	C	2
9910	A	1
9912	B	1
9914	B	2
9917	A	2
9925	B	1
9930	C	3
9937	C	2
9940	C	2
T28	C	3
T35	B	1
T54	C	4
T55	A	4

PCB.01792
T12/941

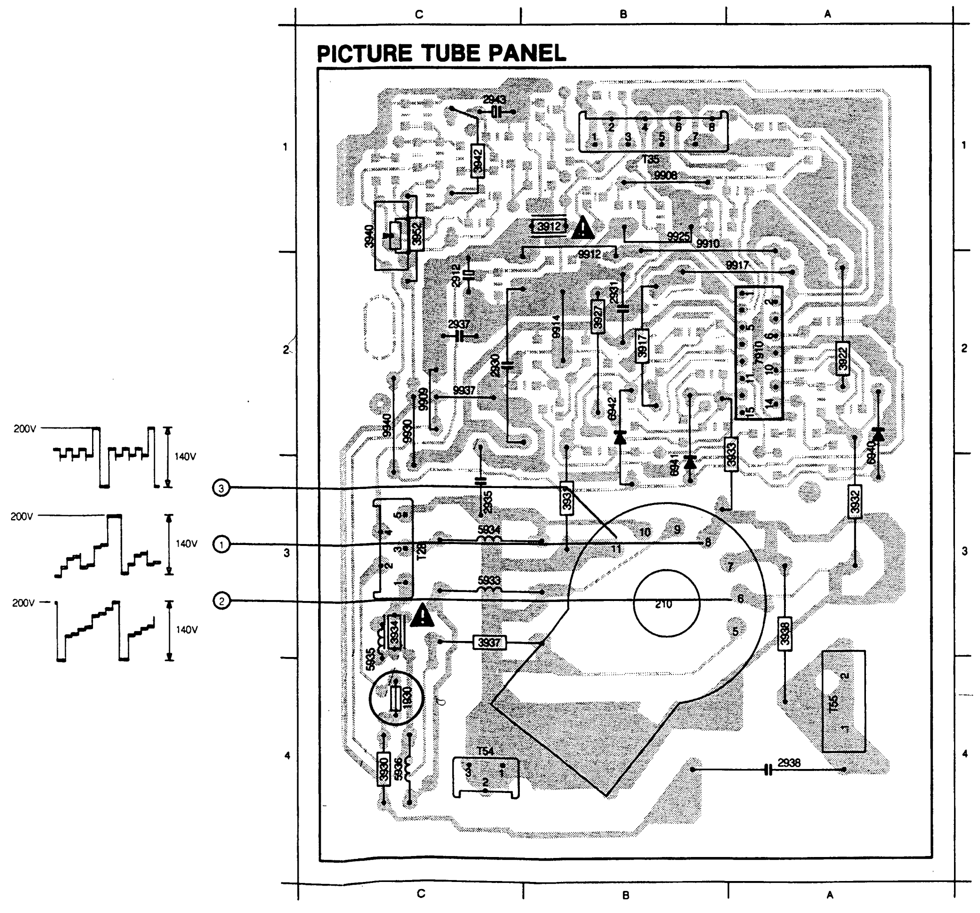
B15
C13
C14
D15
3917-B14
3918-D14
3920-C14
3922-A14
3923-C19
3924-A15
3925-C13
3926-C19
3927-A14
3929-A17
3930-D20
3931-B21
3932-B21
3933-B21
3934-C20
3937-C22
3938-D23
3940-B17
3941-C17
3942-C17
3943-C17
3944-C17
3945-C18
3946-C18
3947-D17
3948-D18
3950-B17
3951-C17
4100-B6
4918-D13
4923-C20
5602-D4
5933-C21
5934-C21
5936-D21
5939-C20
6345-C18
6606-D2
6634-C9
6670-D10
6918-D14
6919-B16
6920-B19
6921-C19
6924-A16
6925-B20
6929-B16
6930-B20
6940-B18
6941-B18
6942-B18
6943-C18
7600-C9
7613-C7
7615-C8
7670-D10
7900-D18
7910-C15
7918-D14
7924-C19
7940-B17
7943-C18
90XX-C21
9620-B6
9909-C22
9933-B21
9936-D21
9937-C22
J64 -A6
Q21 -A6
T28 -D20
T35 -D15
T54 -A21
T54 -C22
T55 -C23
T55 -D24


10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
A
B
C
D
E
3.2V
④
1003 PICTURE TUBE PANEL/AMPLIFICATORE R/V/B
T54
3624 8k2
3625 82
3639 820
2624 1µ
2625 22µ
2640 100n
2639 15µ
7600 TDA2577A
7.1V
4.1V
2.9V
15.625Hz
3641 10k
2641 2n2
3642 39k
HORIZONTAL REFERENCE
VIDEO TRANSMITTOR IDENTIFICATION
3635 820
2642 100n
2635 22n
3634 1k0
6634 BZX79 /C5V1
0V
10V
6670
LL4148
7670 BC848B
2670 22N0
3672 10k
3671 22k
3670 15k
F75
D,H67
G74
● Reserved component only for 33"
3927 68k
3922 68k
3917 68k
3924 220
2924 1n
6924 LL4148
3914 220
2914 1n
6919 LL4148
117V
120V
+12
+200
VDD
Vref
3909 820
3908 820
3914 820
3.5V
12V
4V
3910 JMP
3911 JMP
3913 JMP
7910 TEA5101A/P
3925 1k4
3920 1k4
3915 1k4
4918
NOT FOR 33"
6918 LL4148
7918 BC848B
3918 10k
3916 12k
3912 12
2912 10µ
+13
BEAM CURRENT
PBCL
FOR 33" 3925-3920-3915 1K2
T35
D66
6929 LL4148
3929 220
2929 1n
+200V
3940 220k
3950 RES
3941 100k
3951 RES
0.9V
5V
11.3V
3943 33k
2943 68µ
7940 BF822
3944 330k
3942 150k
7943 BC857B
1.4V
6345 LL4148
3948 300k
3947 100k
3901 12k
7900 BC848
3.7V
3900 4k7
PEAK BEAM CURRENT LIMITER
6940 BAV103
6941 BAV103
6942 BAV103
12.7V
3945 110k
3946 120k
1.1V
2946 68p
6943 LL4148
+200V
3926 680k
6921 LLZ-C10
3923 330k
7924 BF823
6920 BAV103
6925 BAV103
6930 BAV103
4923
200V
140V
①
②
③
3933 1k5
3932 1k5
3931 1k5
9933
5933 12µH
5934 12µH 90XX
5939 10µH
3934 1R2
+200
3930 150
1930 100mAT
2930 1µ
3936
3938
T28
F56
NOT FOR 33"
9909
3937 1k5
2937 22n
9937
2935 1n
3938 1k5
2938 22n (1000V-33")
T55
VG2
FOCUS
F50
F51
F52
R
G
B
1599
CHASSIS D16-III
ESV.00173
T-04 941


PICTURE TUBE PANEL
A
B
C
1
2
3
4
210
T54
T55
2938

1930	C 4
210	B 3
2912	C 2
2919	B 2
2924	A 2
2929	A 2
2930	C 2
2931	B 2
2935	C 3
2937	C 2
2938	A 4
2943	B 1
2946	C 1
3900	B 1
3901	B 1
3908	A 1
3909	A 1
3910	A 2
3911	A 3
3912	B 1
3913	A 3
3914	B 1
3915	A 1
3916	C 2
3917	B 2
3918	B 2
3919	B 2
3920	A 1
3922	A 2
3923	B 2
3924	A 2
3925	B 1
3926	B 2
3927	B 2
3929	B 3
3930	C 4
3931	B 3
3932	A 3
3933	A 3
3934	C 3
3937	C 3
3938	A 4
3940	C 2
3941	C 1
3942	C 1
3943	B 1
3944	C 1
3945	C 1
3946	C 1
3947	B 1
3948	B 1
3950	C 1
3951	C 1
3952	C 2
4918	A 1
4923	A 2
4928	B 2
5418	B 1
5933	C 3
5933	B 1
5934	C 3
5934	C 1
5935	C 4
5936	C 4
6247	C 1
6903	B 1
6918	A 1
6919	B 2
6920	B 2
6921	B 2
6924	A 2
6925	A 2
6929	A 2
6930	B 3
6940	A 3
6941	B 3
6942	B 3
6943	C 1
6945	C 1
7250	B 2
7910	A 2
9908	B 1
9909	C 2
9910	A 1
9912	B 1
9914	B 2
9917	A 2
9925	B 1
9930	C 3
9937	C 2
9940	C 2
T28	C 3
T35	B 1
T54	C 4
T55	A 4

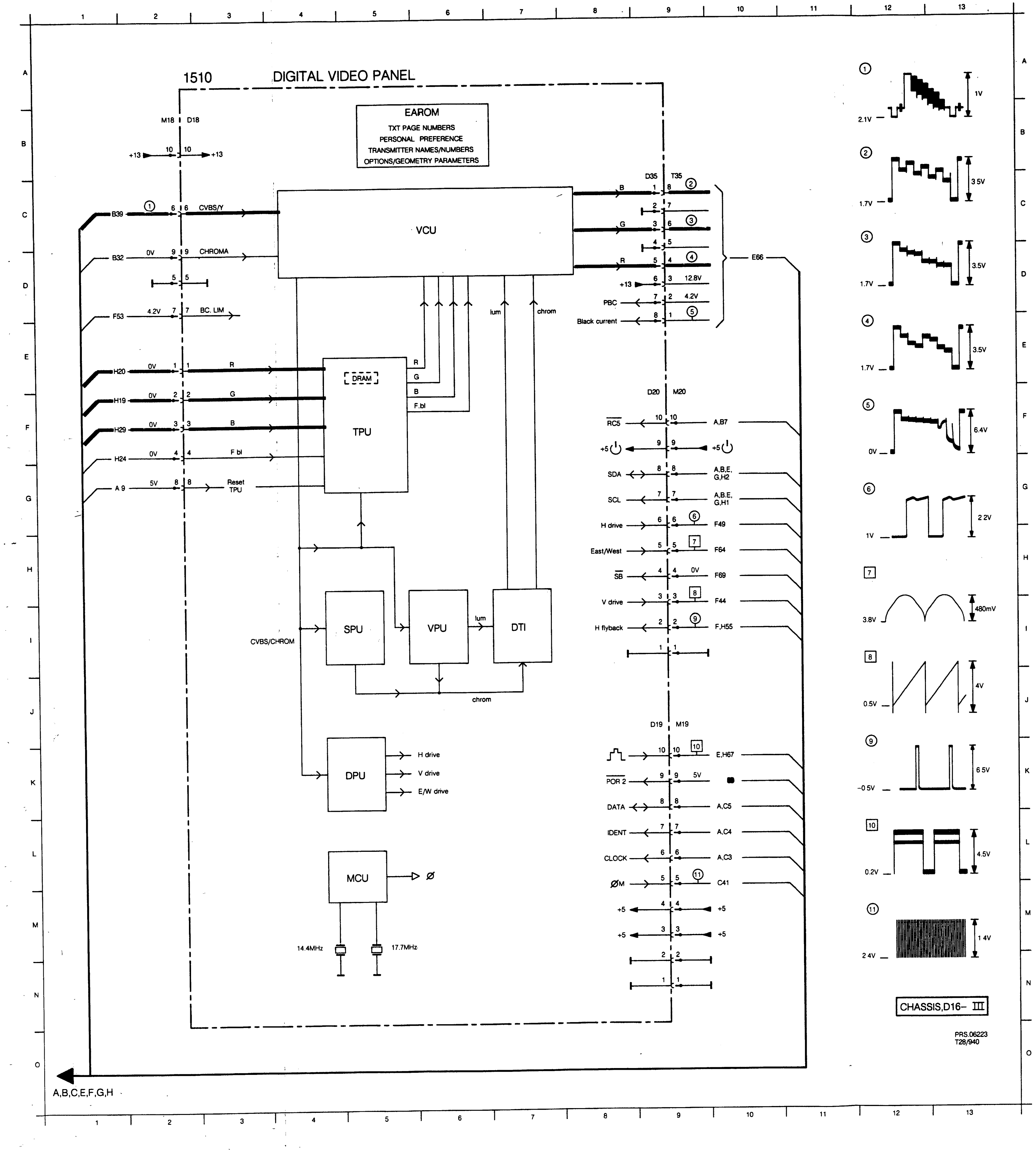
PCB.01792
T12/941


PICTURE TUBE PANEL
C
B
A
1
2
3
4
200V
140V
①
②
③
210
T54
T55
2938

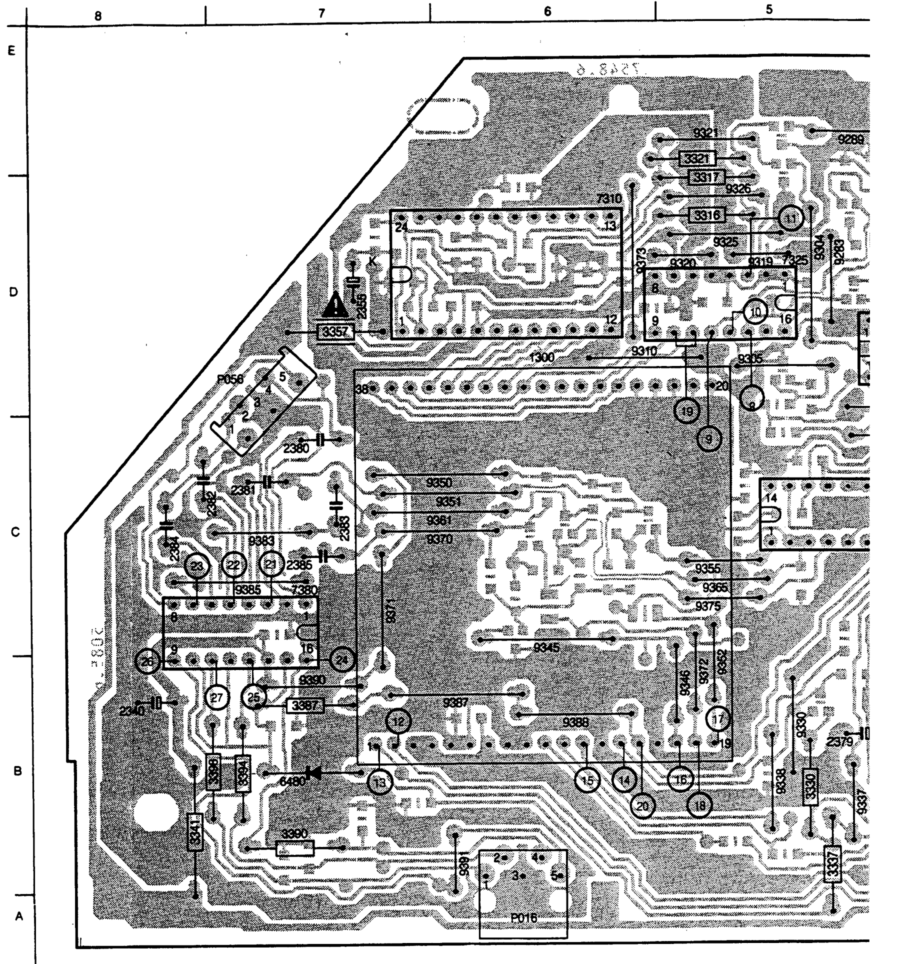
1930	C 4
210	B 3
2912	C 2
2930	C 2
2931	B 2
2935	C 3
2937	C 2
2938	A 4
2943	C 1
3912	B 1
3917	B 2
3922	A 2
3927	B 2
3930	C 4
3931	B 3
3932	A 3
3933	A 3
3934	C 3
3937	C 3
3938	A 4
3940	C 2
3942	C 1
3952	C 2
5933	C 3
5934	C 3
5935	C 4
5936	C 4
6940	A 3
6941	B 3
6942	B 2
7910	A 2
9908	B 1
9909	C 2
9910	B 1
9912	B 2
9914	B 2
9917	A 2
9925	B 1
9930	C 3
9937	C 2
9940	C 2
T28	C 3
T35	B 1
T54	C 4
T55	A 4

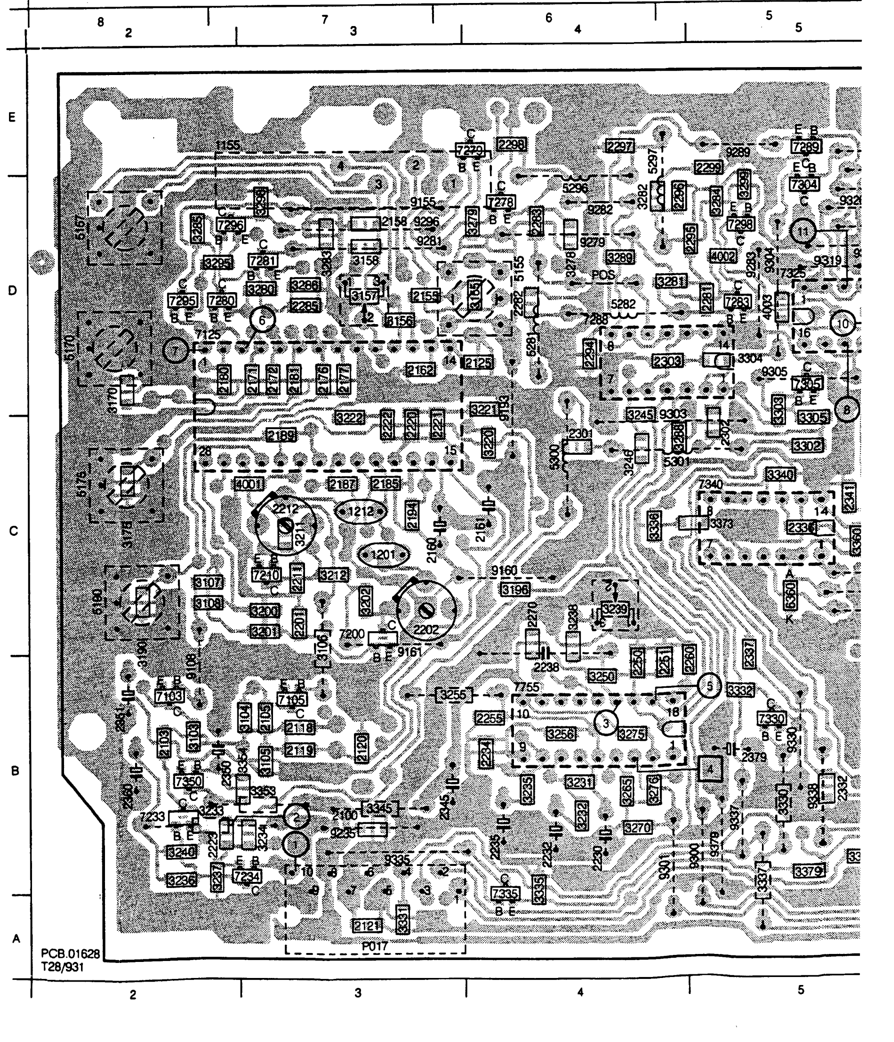
PCB.01793
T12/941

CHASSIS D16-III DIAGRAM-SCHALTBILD-SCHEMA D


1510
DIGITAL VIDEO PANEL
EAROM
TXT PAGE NUMBERS
PERSONAL PREFERENCE
TRANSMITTER NAMES/NUMBERS
OPTIONS/GEOMETRY PARAMETERS
M18
D18
+13
VCU
TPU
DRAM
SPU
VPU
DTI
DPU
MCU
B39
CVBS/Y
B32
CHROMA
F53
4.2V
BC. LIM
H20
H19
H29
H24
A 9
5V
Reset TPU
R
G
B
F.bl
lum
chrom
D35
T35
E66
+13
12.8V
PBC
4.2V
Black current
D20
M20
RC5
A,B7
+5
SDA
A,B,E, G,H2
SCL
A,B,E, G,H1
H drive
F49
East/West
F64
SB
0V
F69
V drive
F44
H flyback
F,H55
CVBS/CHROM
D19
M19
E,H67
POR 2
5V
DATA
A,C5
IDENT
A,C4
CLOCK
A,C3
ØM
C41
H drive
V drive
E/W drive
Ø
14.4MHz
17.7MHz
A,B,C,E,F,G,H
2.1V
1V
1.7V
3.5V
0V
6.4V
2.2V
3.8V
480mV
0.5V
4V
-0.5V
6.5V
0.2V
4.5V
2.4V
1.4V
CHASSIS,D16- III
PRS.06223
T28/940

PIP PANEL

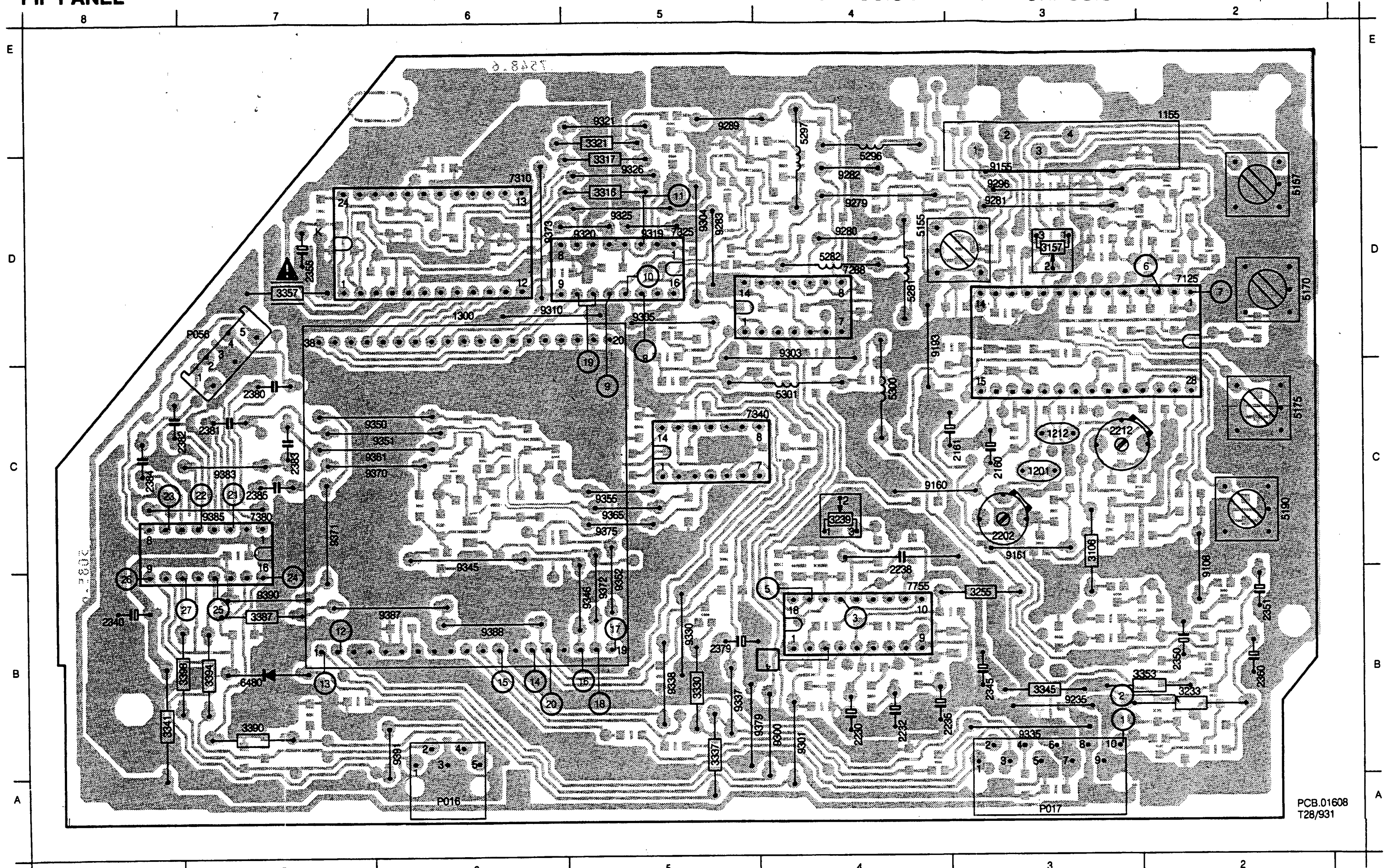

P056
P016
1300
7310
7380

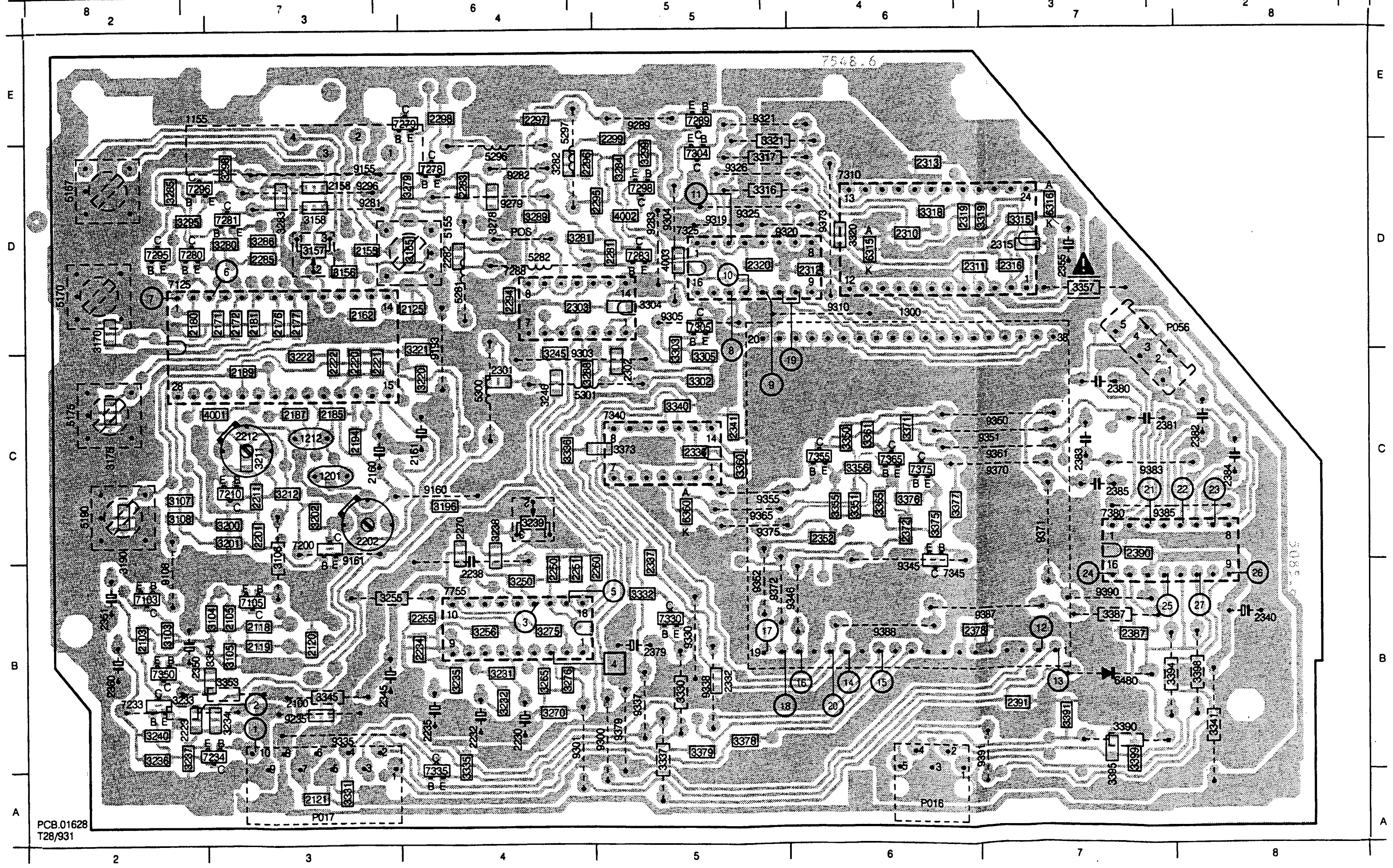

P017
PCB.01628
T28/931

PIP PANEL

21 CHASSIS D16-III

21 CHASSIS D16-III





1155	E 2	3302	C 5
1201	C 3	3303	C 5
1212	C 3	3304	D 5
1300	D 6	3305	C 5
2100	B 3	3315	D 7
2103	B 2	3316	D 5
2105	B 3	3317	D 5
2118	B 3	3318	D 6
2119	B 3	3319	D 7
2120	B 3	3320	D 6
2121	A 3	3321	D 5
2125	D 4	3330	B 5
2155	D 3	3331	A 3
2158	D 3	3332	B 5
2160	C 3	3335	A 4
2161	C 4	3336	C 4
2162	D 3	3337	A 5
2171	D 3	3340	C 5
2172	D 3	3341	B 8
2176	D 3	3345	B 3
2177	D 3	3350	C 6
2180	D 2	3351	C 6
2181	D 3	3353	B 3
2185	C 3	3354	B 3
2187	C 3	3355	C 6
2189	C 3	3356	C 6
2194	C 3	3357	D 7
2201	B 3	3360	C 5
2202	C 3	3361	C 6
2211	C 3	3365	C 6
2212	C 3	3371	C 6
2220	C 3	3373	C 5
2221	C 3	3375	C 6
2222	C 3	3376	C 6
2223	B 2	3377	C 6
2230	B 4	3378	B 5
2232	B 4	3379	B 5
2234	B 4	3387	B 7
2235	B 4	3390	B 7
2238	B 4	3391	B 7
2250	B 4	3394	B 7
2251	B 4	3395	A 7
2255	B 4	3398	B 8
2260	B 5	3399	A 7
2270	C 4	4001	C 3
2281	D 5	4002	D 5
2282	D 4	4003	D 5
2283	D 4	5155	D 4
2285	D 3	5157	D 2
2294	D 4	5170	D 2
2295	D 5	5175	C 2
2296	D 4	5190	C 2
2297	E 4	5281	D 4
2298	E 4	5282	D 4
2299	D 5	5296	D 4
2301	C 4	5297	D 4
2302	C 5	5300	C 4
2303	D 4	5301	C 4
2310	D 6	6315	D 6
2311	D 6	6316	D 7
2312	D 6	6360	C 5
2313	D 6	6480	B 7
2315	D 7	7103	B 2
2316	D 7	7105	B 3
2319	D 6	7125	D 2
2320	D 5	7200	C 3
2332	B 5	7210	C 3
2336	C 5	7233	B 2
2337	B 5	7234	B 3
2340	B 8	7278	D 4
2341	C 5	7279	E 4
2345	B 3	7280	D 2
2350	B 2	7281	D 3
2351	B 2	7283	D 5
2352	C 6	7288	D 4
2355	D 7	7289	E 5
2360	B 2	7295	D 2
2372	C 6	7296	D 2
2378	B 6	7298	D 5
2379	B 5	7304	D 5
2380	C 7	7305	D 5
2381	C 7	7310	D 6
2382	C 8	7325	D 5
2383	C 7	7330	B 5
2384	C 8	7335	A 4
2385	C 7	7340	C 5
2387	B 7	7345	C 6
2390	B 7	7350	B 2
2391	B 7	7355	C 6
3103	B 2	7365	C 6
3104	B 3	7375	C 6
3105	B 3	7380	C 7
3106	B 3	7755	B 4
3107	C 2	9108	B 2
3108	C 2	9155	D 3
3155	D 4	9160	C 4
3156	D 3	9161	B 3
3157	D 3	9193	C 4
3158	D 3	9235	B 3
3170	C 2	9279	D 4
3175	C 2	9281	D 3
3190	B 2	9282	D 4
3196	C 4	9283	D 5
3200	C 3	9289	E 5
3201	C 3	9296	D 3
3202	C 3	9300	B 5
3211	C 3	9301	A 4
3212	C 3	9303	C 4
3220	C 4	9304	D 5
3221	C 4	9305	D 5
3222	C 3	9310	D 6
3231	B 4	9319	D 5
3232	B 4	9320	D 6
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3234	B 3	9325	D 5
3235	B 4	9326	D 5
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3237	A 2	9335	B 3
3238	C 4	9337	B 5
3239	C 4	9338	B 5
3240	B 2	9345	B 6
3245	C 4	9346	B 6
3246	C 4	9350	C 7
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3256	B 4	9355	C 5
3265	B 4	9361	C 7
3270	B 4	9365	C 5
3275	B 4	9370	C 7
3276	B 4	9371	B 7
3278	D 4	9372	B 5
3279	D 4	9373	D 6
3280	D 3	9375	C 5
3281	D 4	9379	B 5
3282	D 4	9383	C 7
3283	D 3	9385	C 7
3284	D 5	9387	B 7
3285	D 2	9388	B 6
3286	D 3	9390	B 7
3288	C 4	9391	A 6
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3295	D 2	P017	A 3
3298	D 3	P056	D 8
3299	D 5	POS	D 4

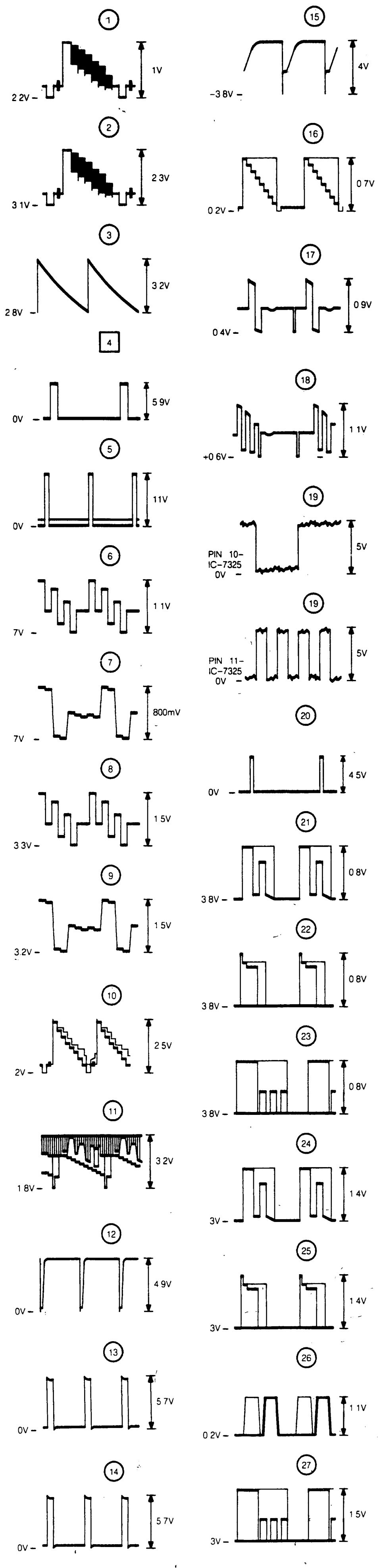

DIAGRAM H

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1201-G6
1212-H6
1300-D19
2100-J3
2103-D2
2105-D3
2118-D4
2119-D5
2120-D5
2125-C5
2155-A6
2158-B8
2160-C6
2161-B6
2162-B7
2171-C9
2172-C9
2176-C10
2177-C10
2180-C10
2181-C11
2185-F5
2187-F6
2189-F6
2194-F8
2201-H5
2202-G6
2211-I 5
2212-H6
2220-G7
2221-G7
2222-H7
2223-G4
2230-H8
2232-H9
2234-H10
2235-H10
2238-H11
2250-I 13
2251-I 13
2255-H8
2260-I 8
2270-J10
2281-D14
2282-D13
2283-D13
2285-E12
2294-E14
2295-D14
2296-F14
2297-F13
2298-F13
2299-F14
2301-I 14
2302-H15
2310-B16
2311-D16
2313-D16
2315-F16
2316-F17
2319-E18
2320-G18
2332-B19
2336-A24
2337-A25
2340-H3
2345-I 3
2350-J3
2352-E21
2355-J3
2360-K3
2372-H21
2378-J20
2379-J20
2380-D23
2381-E24
2382-E23
2383-F24
2384-G23
2385-G24
2387-G23
2390-D25
2391-D24
2701-G26
2702-F26
2703-E26
2705-H2
3103-D3
3104-D3
3105-D3
3106-E4
3107-E4
3108-E4
3155-A6
3156-B6
3157-A8
3158-B8
3170-B9
3175-B10
3190-F6
3196-F9
3200-G5
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3202-G6
3211-I 5
3212-H6
3220-G7
3221-H7
3222-H7
3231-H9
3232-H9
3233-J3
3234-G4
3235-H10
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3237-G3
3238-H11
3239-H11
3240-F4
3245-G12
3246-G12
3250-H13
3255-H7
3256-H8
3265-I 8
3270-J9
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3276-J11
3278-D13
3279-F13
3280-D12
3281-D14
3282-F14
3283-D12
3284-D15
3285-D11
3286-E11
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3289-D15
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3298-F12
3299-F15
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3318-E18
3319-E18
3320-E17
3321-E18

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3336-A24
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3340-A25
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3352-E21
3353-I 3
3354-I 3
3355-F22
3356-F22
3357-J3
3360-G21
3361-G22
3365-G22
3371-H22
3372-H21
3373-I 22
3375-I 22
3376-H22
3377-H22
3378-J20
3379-J20
3387-H24
3390-E25
3391-E25
3394-F25
3395-F25
3398-G25
3399-G25
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3747-G2
3748-G2
5118-D4
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5157-A8
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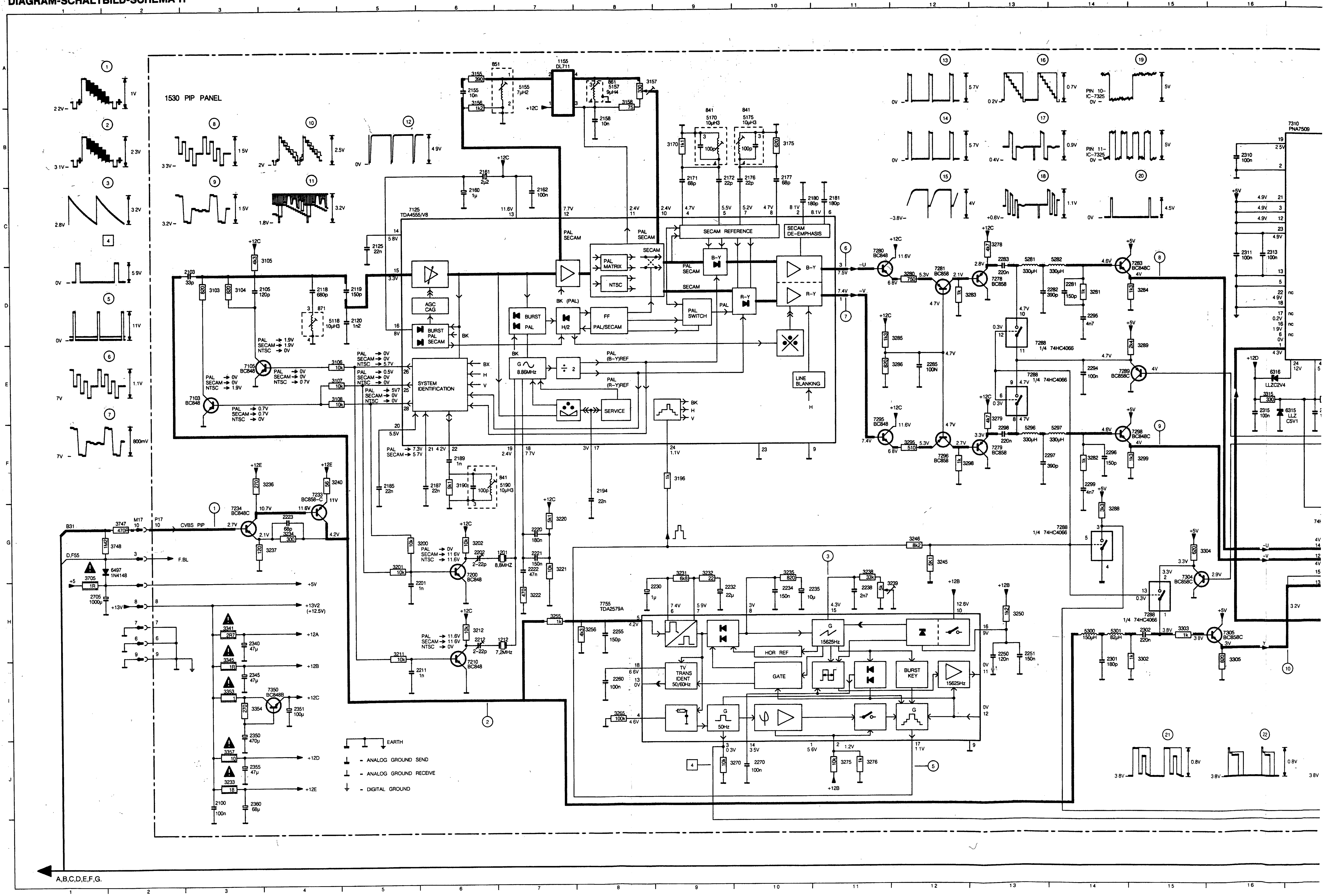
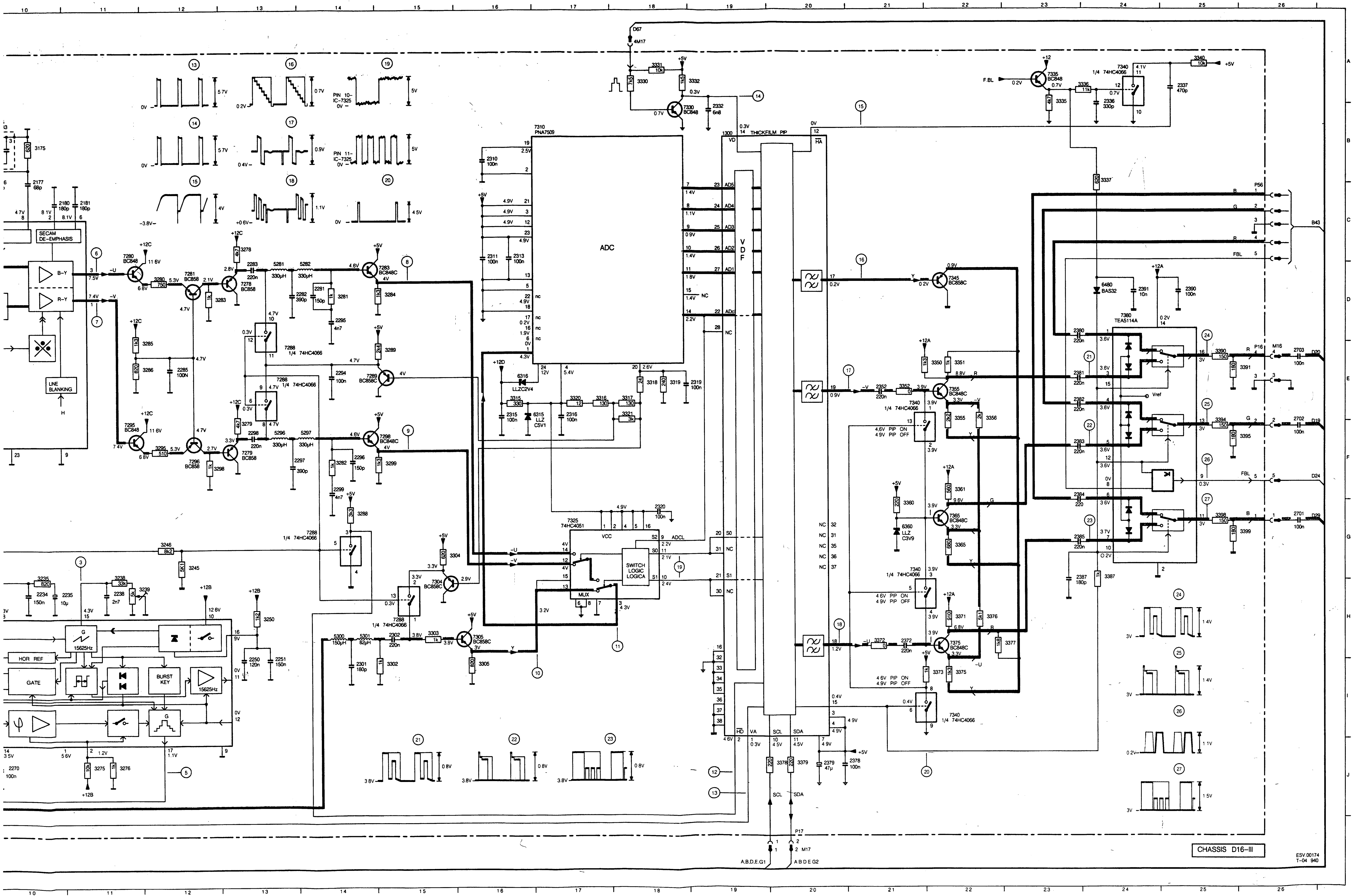
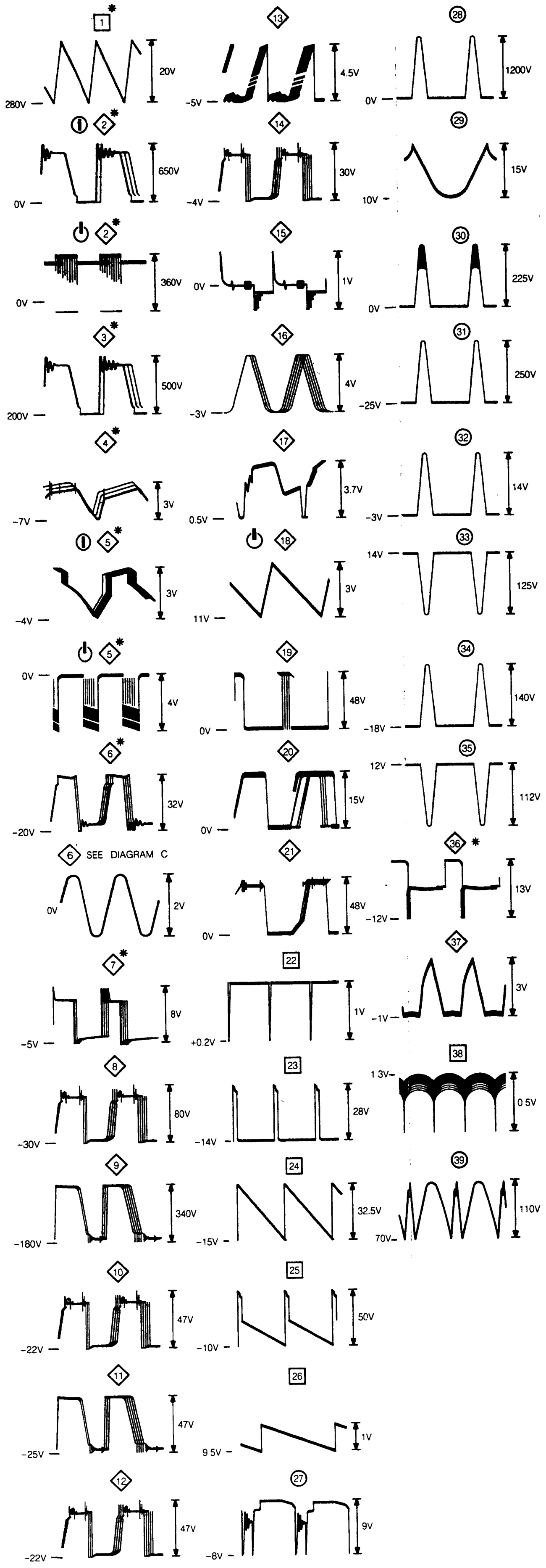
5175-B10
5190-F6
5281-D13
5282-D13
5296-F13
5297-F13
5300-H14
5301-H14
6315-E16
6316-E16
6360-G21
6480-D24
6497-G2
7103-E3
7105-E4
7125-F5
7200-G6
7210-I 6
7233-F4
7234-G3
7278-D12
7279-F12
7280-D11
7281-D12
7283-D14
7288-H15
7288-G14
7288-E13
7289-E15
7295-F11
7296-F12
7298-F14
7304-H16
7305-H15
7310-E18
7325-H17
7330-B18
7335-A23
7340-I 21
7340-A24
7345-D22
7350-I 4
7355-E22
7365-G22
7375-H22
7380-F25
7755-I 9
M16 -E26
M17 -G2
M7 -G2
P16 -E26
P17 -K20
P17 -G2
P56 -C26

ESV.00148
T28/931

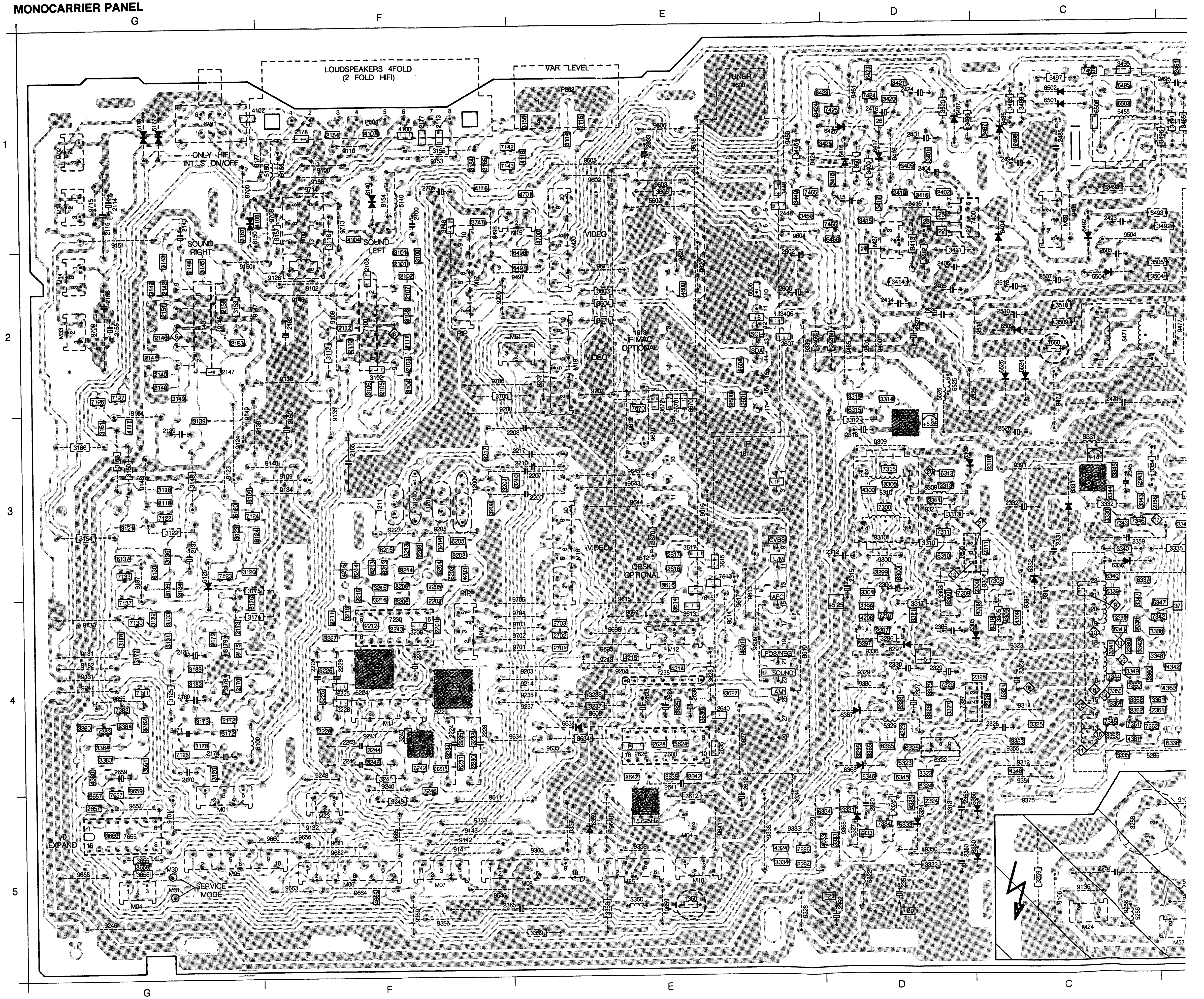
DIAGRAM-SCHALTBILD-SCHEMA H

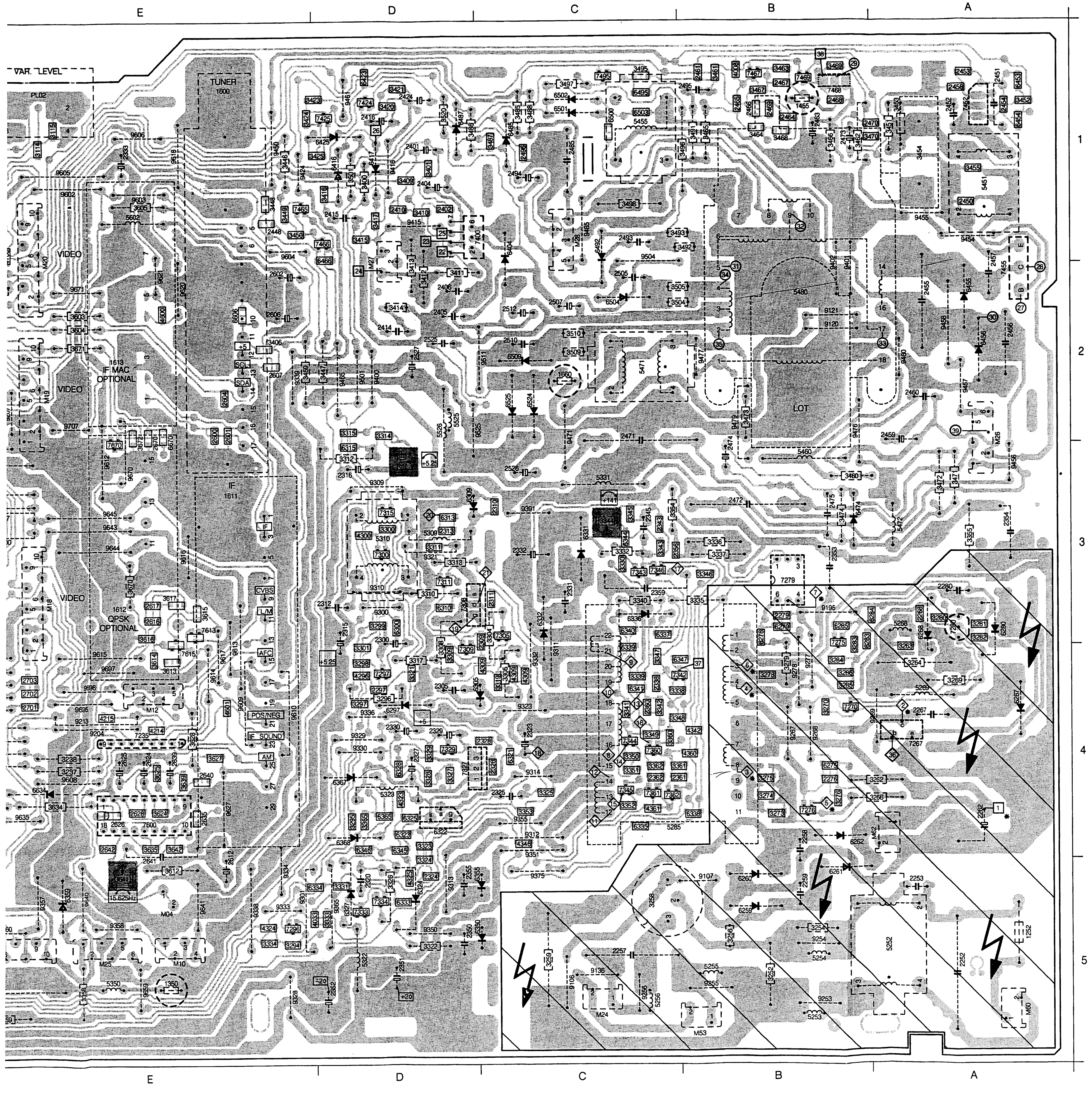

1530 PIP PANEL
1155 DL711
7125 TDA4555/V8
AGC CAG
BURST PAL SECAM
SYSTEM IDENTIFICATION
PAL SECAM
PAL MATRIX
NTSC
SECAM REFERENCE
SECAM DE-EMPHASIS
BURST PAL
H/2
FF PAL/SECAM
PAL SWITCH
G 8.86MHz
÷ 2
PAL (B−Y)REF
PAL (R−Y)REF
SERVICE
LINE BLANKING
B−Y
R−Y
BK (PAL)
7755 TDA2579A
TV TRANS IDENT 50/60Hz
GATE
HOR REF
BURST KEY
15625Hz
50Hz
7288 1/4 74HC4066
7310 PNA7509
CVBS PIP
F.BL
+5V
+13V2 (+12.5V)
+12A
+12B
+12C
+12D
+12E
EARTH
- ANALOG GROUND SEND
- ANALOG GROUND RECEIVE
- DIGITAL GROUND
A,B,C,D,E,F,G.
8,8MHZ
7,2MHz


SECAM DE-EMPHASIS
B-Y
R-Y
LINE BLANKING
HOR REF
GATE
BURST KEY
15625Hz
7310 PNA7509
ADC
VDF
1300 THICKFILM PIP
7325 74HC4051
SWITCH LOGIC LOGICA
MUX
7380 TEA5114A
7288 1/4 74HC4066
7340 1/4 74HC4066
7335 BC848
7330 BC848
7345 BC858C
7355 BC848C
7365 BC848C
7375 BC848C
7280 BC848
7281 BC858
7278 BC858
7283 BC848C
7289 BC858C
7295 BC848
7296 BC858
7279 BC858
7298 BC848C
7304 BC858C
7305 BC858C
6480 BAS32
6316 LLZC2V4
6315 LLZ C5V1
6360 LLZ C3V9
D67 4M17
F.BL
P56
B43
P16 M16
D20
D19
D24
D29
Vref
4.6V PIP ON
4.9V PIP OFF
PIN 10- IC-7325
PIN 11- IC-7325
SCL
SDA
P17
M17
A,B,D,E,G1
A,B,D,E,G2
CHASSIS D16-III
ESV.00174 T-04 940



MONOCARRIER PANEL


G
F
E
D
C
1
2
3
4
5
LOUDSPEAKERS 4FOLD
(2 FOLD HIFI)
VAR. LEVEL
TUNER
1600
PL01
PL02
SW1
ONLY HIFI
INT.LS ON/OFF
SOUND RIGHT
SOUND LEFT
VIDEO
PIP
1613
IF MAC
OPTIONAL
IF
1611
1612
QPSK
OPTIONAL
CVBS
L/M
AFC
POS/NEG
IF SOUND
AM
SDA
SCL
I/O
EXPAND
SERVICE
MODE
M30
M31
M04
M05
M06
M07
M08
M10
M01
M23
M24
M25



	3F
M01	5G
M02	1G
M04	5E
M04	5G
M05	5G
M06	5F
M07	5F
M08	5E
M10	5E
M11	4F
M12	4E
M14	2G
M15	1E
M16	4F
M17	2F
M18	3E
M19	2E
M20	2E
M23	5F
M24	5C
M25	5E
M26	3A
M27	2D
M28	1C
M33	2G
M34	1G
M53	5B
M60	5A
M61	2E
M62	4A
SW1	1G
1200	3F
1201	3F
1210	3F
1211	3F
1252	5A
1350	5E
1455	1B
1600	1E
1611	3E
1612	3E
1613	2E
1660	2C
1700	1F
2100	1F
2101	2F
2102	2F
2103	2F
2105	2F
2107	2F
2108	2F
2110	2F
2111	2F
2112	2F
2113	1F
2114	1G
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2137	3G
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2141	2G
2142	2G
2143	1G
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2155	2G
2156	2G
2160	3F
2162	2F
2165	3F
2170	4G
2171	4G
2172	4G
2173	4G
2174	4G
2175	4G
2176	4G
2177	1F
2178	1F
2179	4G
2180	4G
2181	4G
2200	3E
2201	4F
2202	4F
2205	3F
2207	3E
2208	3F
2209	3F
2210	3E
2211	4F
2212	4F
2215	4F
2217	3E
2224	4F
2224	4F
2225	4F
2226	4F
2228	4F
2228	4F
2230	4F
2235	4F
2240	4F
2241	4F
2243	4F
2246	4F
2252	5A
2253	5A
2257	5C
2258	4B
2259	5B
2262	4A
2267	4A
2268	3A
2276	4B
2279	3B
2280	3A
2297	4D
2300	3D
2305	4D
2309	4C
2310	3C
2311	3C
2312	3D
2313	3D
2315	3D
2316	3D
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2328	4D
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2353	3B
2354	3A
2355	5D
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2359	3C
2360	4C
2361	4C
2362	4C
2365	5F
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2402	1D
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2405	2D
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2416	1D
2424	1D
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2494	1C
2495	1B
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2604	2E
2606	2E
2607	2E
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2640	4E
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2642	4E
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2659	4G
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2702	4E
2703	4E
2705	1F
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3142	2G
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3145	2G
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3174	4G
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5323	4D
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6345	4D
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6347	4C
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9313	5D
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9332	4C
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9336	4D
9338	5E
9339	2E
9350	5D
9351	4C
9355	4C
9356	5F
9357	5E
9358	5E
9359	5F
9360	5E
9365	5D
9375	5C
9391	3C
9400	2D
9401	2B
9402	2B
9415	1D
9416	1D
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9450	1E
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9455	1A
9456	3A
9457	2A
9458	2A
9460	2A
9461	1D
9465	2D
9471	3C
9476	2B
9477	2B
9479	2B
9485	1C
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9501	2D
9504	1C
9511	2C
9525	2C
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9611	5F
9612	3E
9613	4E
9614	4E
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9644	3E
9645	3E
9646	5F
9655	4G
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9658	5G
9659	5E
9660	5F
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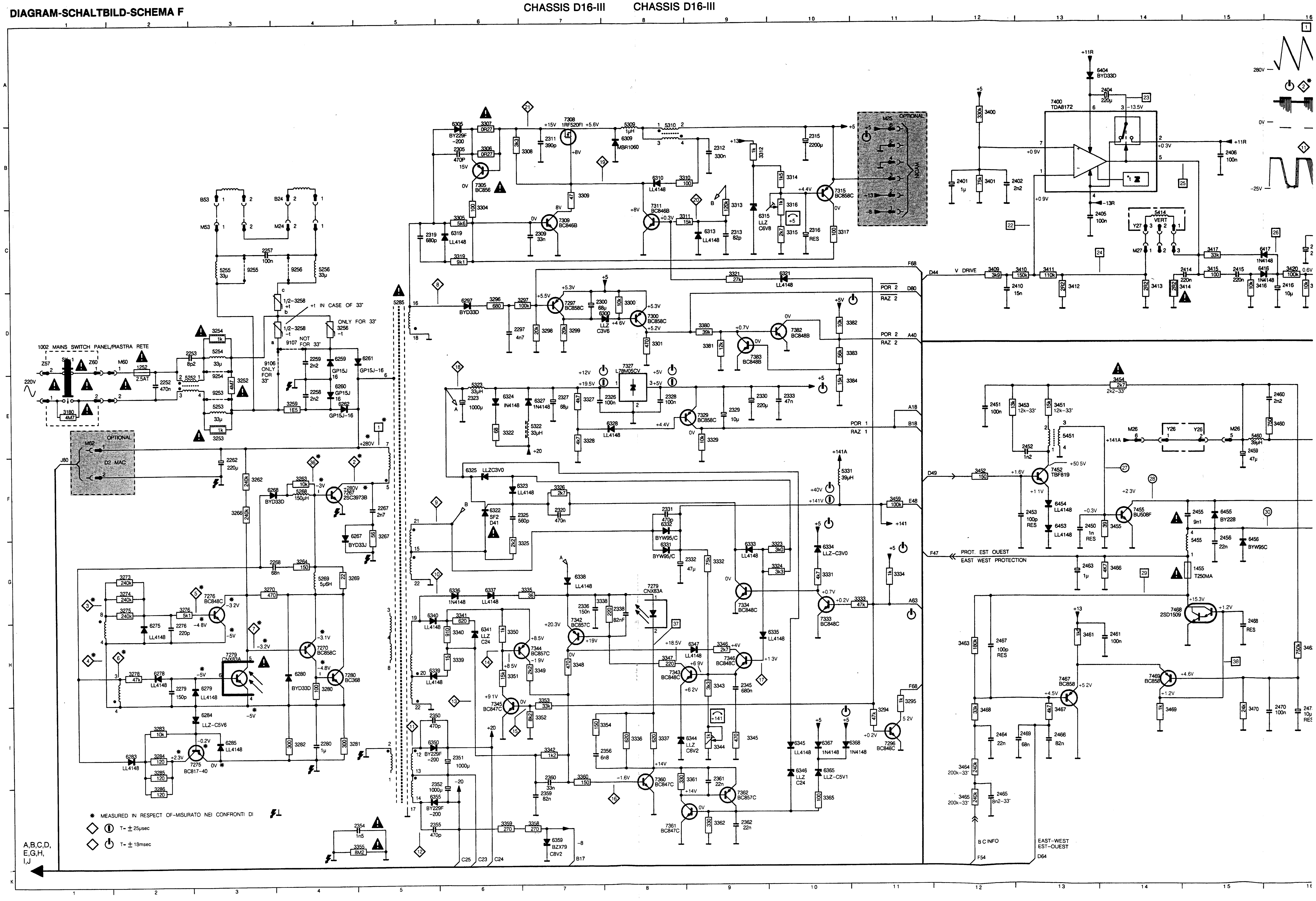
9704	4E
9705	4E
9706	2F
9707	2E
9708	1F
9709	2G
9713	1F
9714	1F
9715	1G
PL01	1F
PL02	1E

PCB.01796
T27/942

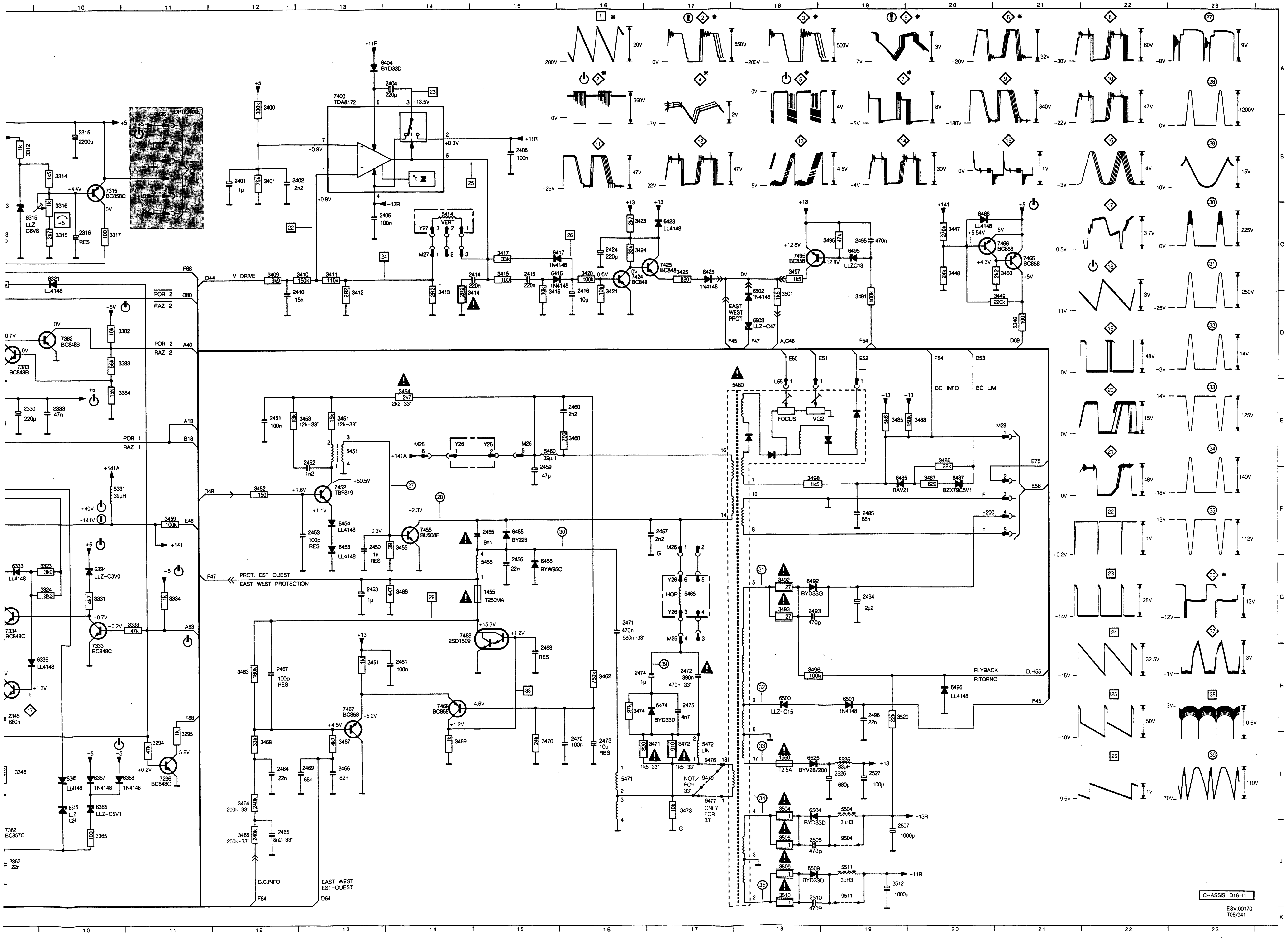
DIAGRAM-SCHALTBILD-SCHEMA F


1002 MAINS SWITCH PANEL/PIASTRA RETE
220V
1252 2.5AT
OPTIONAL
D2 MAC
M62
J80
B53
B24
M53
M24
1/2-3258 +t IN CASE OF 33"
ONLY FOR 33"
NOT FOR 33"
9106 ONLY FOR 33"
5285
+280V
7267 2SC3973B
7276 BC848C
7279 CNX83A
7270 BC858C
7280 BC368
7275 BC817-40
7305 BC856
7308 1RF520FI
7309 BC846B
7311 BC846B
7315 BC858C
7297 BC858C
7300 BC858C
7382 BC848B
7383 BC848B
7327 L78M05CV
7329 BC858C
7342 BC857C
7344 BC857C
7345 BC847C
7343 BC848C
7346 BC848C
7334 BC848C
7333 BC848C
7360 BC847C
7361 BC847C
7362 BC857C
7296 BC848C
M25 OPTIONAL
POR 2
RAZ 2
POR 1
RAZ 1
PROT. EST OUEST
EAST WEST PROTECTION
V DRIVE
7400 TDA8172
5414 VERT
7452 TBF819
7455 BU508F
1455 T250MA
7468 2SD1509
7467 BC858
7469 BC858
B C INFO
EAST-WEST EST-OUEST
280V
0V
-25V
A,B,C,D, E,G,H, I,J

✱ MEASURED IN RESPECT OF-MISURATO NEI CONFRONTI DI

◇ Ⓘ T= ± 25μsec

◇ ⏻ T= ± 18msec


7400
TDA8172
7315
BC858C
7382
BC848B
7383
BC848B
7334
BC848C
7333
BC848C
7296
BC848C
7362
BC857C
7424
BC848
7425
BC848
7495
BC858
7466
BC858
7465
BC858
7452
TBF819
7455
BU508F
7468
2SD1509
7467
BC858
7469
BC858
5414
VERT
Y27
M27
M25
OPTIONAL
NICAM
V DRIVE
POR 2
RAZ 2
POR 1
RAZ 1
PROT. EST OUEST
EAST WEST PROTECTION
EAST WEST PROT
B.C.INFO
EAST-WEST
EST-OUEST
BC INFO
BC LIM
FLYBACK
RITORNO
FOCUS
VG2
HOR
LIN
NOT FOR 33"
ONLY FOR 33"
5480
5460
39µH
5451
5455
5471
5472
1455
T250MA
6404
BYD33D
6417
1N4148
6416
1N4148
6423
LL4148
6425
1N4148
6502
1N4148
6503
LLZ-C47
6495
LLZC13
6466
LL4148
6485
BAV21
6487
BZX79C5V1
6454
LL4148
6453
LL4148
6455
BY228
6456
BYW95C
6474
BYD33D
6492
BYD33G
6496
LL4148
6500
LLZ-C15
6501
1N4148
6525
BYV28/200
6504
BYD33D
6509
BYD33D
1660
T2.5A
5525
33µH
5504
3µH3
5511
3µH3
9504
9511
9476
9477
9479
+11R
-13R
+13
+141
+141A
+200
+5
+50.5V
+15.3V
CHASSIS D16-III
ESV 00170
T06/941
10
11
12
13
14
15
16
17
18
19
20
21
22
23
A
B
C
D
E
F
G
H
I
J
K

1252-D2
1455-G15
1660-I18
2252-E2
2253-D2
2257-C3
2258-E4
2259-E4
2262-F3
2267-F5
2268-G3
2276-H2
2279-H2
2280-I4
2297-D6
2300-D7
2305-B6
2309-C7
2310-B7
2311-B7
2312-B9
2313-C9
2315-B10
2316-C10
2319-C5
2320-F7
2323-E6
2324-F9
2325-F6
2326-E7
2327-E7
2328-E8
2329-E9
2330-E9
2331-F8
2332-G8
2333-E10
2336-H7
2338-H8
2345-H9
2350-I5
2351-I6
2352-J6
2353-I5
2354-J4
2355-J5
2356-I7
2359-J7
2360-I7
2361-J9
2362-J9
2401-B12
2402-B12
2404-A14
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2416-D16
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2455-F15
2456-G15
2457-F17
2459-F15
2460-E16
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2466-I13
2467-H12
2468-H15
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2471-H16
2472-H17
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2507-J19
2510-J18
2512-J19
2525-I18
2526-I19
2527-I19
3180-E1
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3254-D3
3256-D4
3258-D4
3259-E4
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3264-G4
3266-F3
3267-G5
3269-G4
3270-G3
3273-G2
3274-G2
3275-G2
3276-G2
3278-H2
3280-H4
3281-I4
3282-I4
3283-I2
3284-I2
3285-G1
3285-I2
3286-J2
3294-I11
3295-I11
3296-D6
3297-D6
3298-D7
3299-D7
3300-D8
3301-D8
3304-C6
3305-C6
3306-B6
3307-B6
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3313-C9
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3315-C10
3316-C10
3317-C10
3319-C6
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3323-G9
3324-G9
3325-G6
3326-F7
3327-E7
3328-F7
3329-F9
3330-H8
3331-G10
3332-G9
3333-G10
3334-G11
3335-G7
3336-I8
3337-I8
3338-H8
3339-H6
3340-H6
3341-H6
3342-I7
3343-H9
3344-I9
3345-I9
3346-D21
3346-H9
3347-H8
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3350-H6
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3382-D10
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3384-E10
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3420-C16
3421-D16
3423-C16
3424-C16
3425-C17
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3453-E12
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3459-F11
3460-E16
3461-H13
3462-H16
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3464-I12
3465-J12
3466-G14
3467-I13
3468-I12
3469-I14
3470-I15
3471-I16
3472-I17
3473-I17
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3498-F18
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3505-J18
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5253-E3
5254-D3
5255-C3
5256-C4
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5310-B8
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5472-I17
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5480-F18
5504-I19
5511-J19
5525-I19
6259-D4
6260-E4
6261-E5
6262-E5
6267-G4
6268-F4
6275-G2
6278-H2
6279-H3
6280-H4
6283-I2
6284-I3
6285-I3
6297-D6
6300-D8
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6310-B8
6313-C9

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6325-F6
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6367-I10
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6404-A13
6416-C16
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6423-C17
6425-C17
6453-G13
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6487-F20
6492-G19
6495-C19
6496-H20
6500-H18
6501-H19
6502-C18
6503-D18
6504-I18
6509-J19
6524-H19
6525-I19
7267-F4
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7275-I3
7276-G3
7279-G8
7279-H3
7280-H4
7296-I11
7297-D7
7300-D8
7305-B6
7308-B7
7309-C7
7311-C8
7315-B10
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7383-D9
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7425-C16
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7468-G15
7469-H15
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9255-C3
9256-C4
9476-I17
9477-I17
9479-I17
9504-J19
9511-J19
L55 -E18
M25 -B11
M26 -E14
M26 -F17
M27 -C14
M28 -E21
M60 -D1
M60 -E2
SK-1-E1
Y26 -E14
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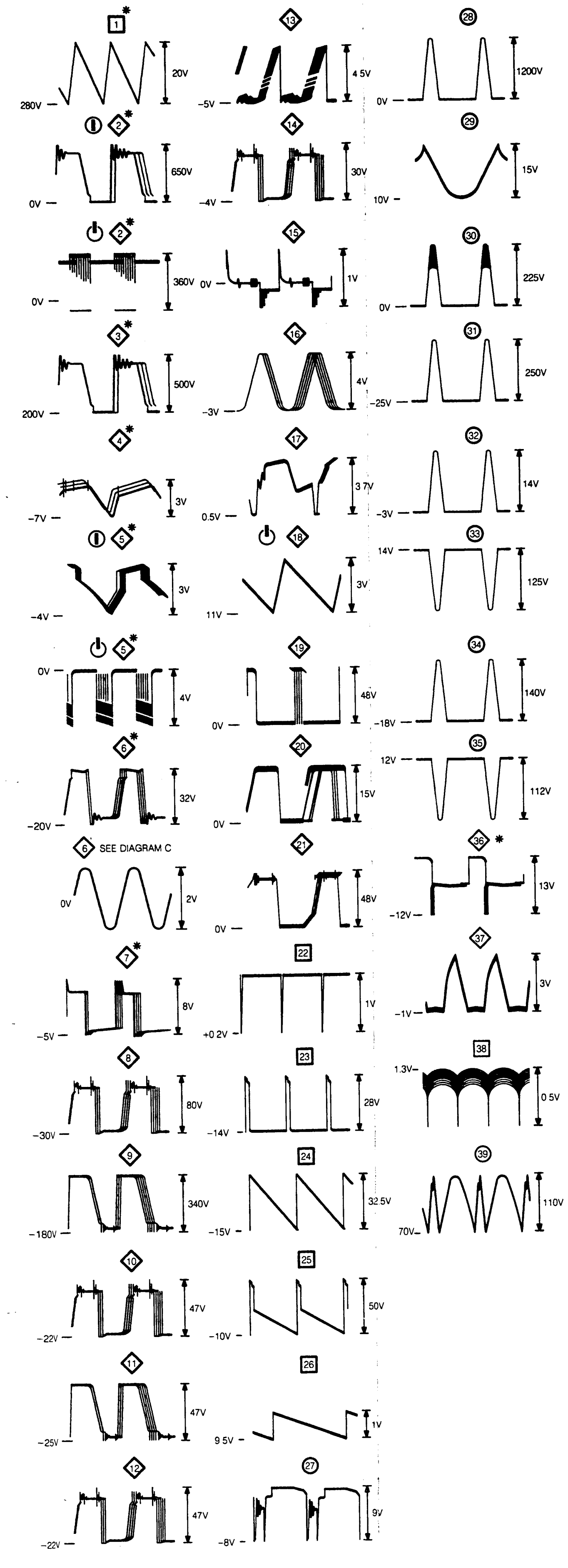
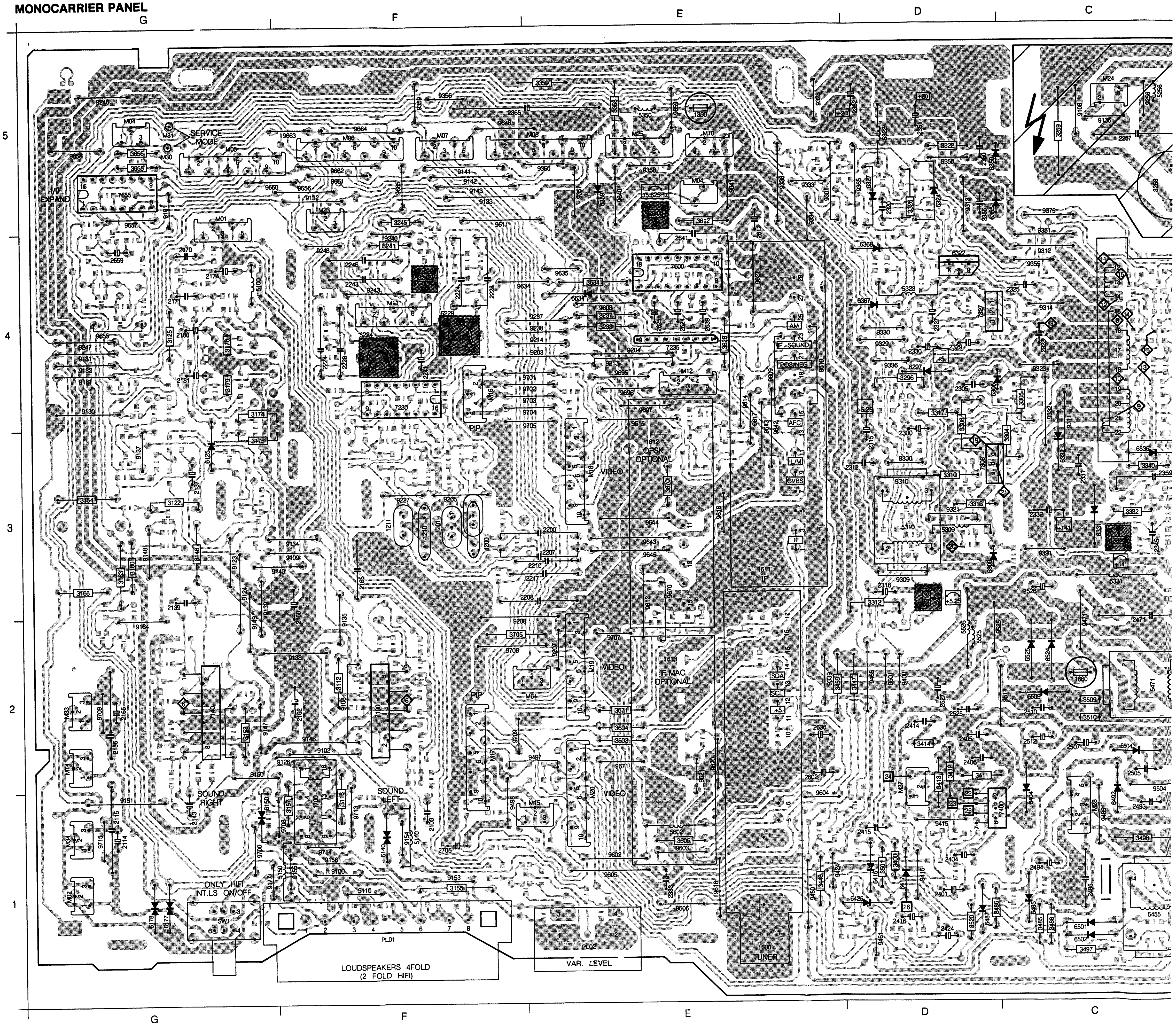
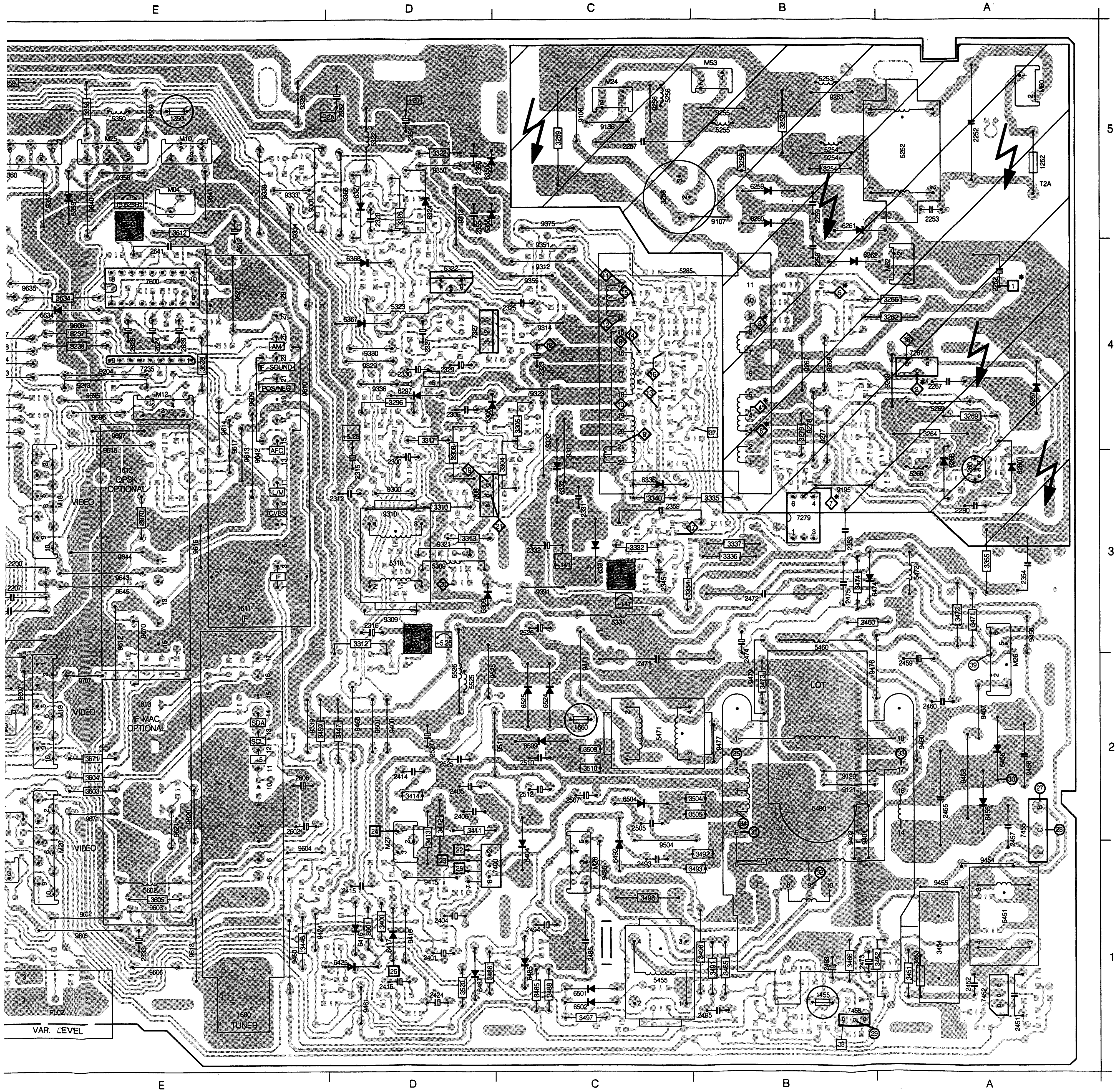
Y27 -C14
Z57 -D1
Z60 -D1



MONOCARRIER PANEL


G
F
E
D
C
5
4
3
2
1
SERVICE MODE
I/O EXPAND
M04
M05
M06
M07
M08
M25
M10
M01
M11
M12
M23
M24
7655
7600
7235
7230
5224
5229
15.625Hz
1350
PIP
VIDEO
1612 OPSK OPTIONAL
1611 IF
1613 IF MAC OPTIONAL
AM
IF-SOUND
POS/NEG
AFC
L/M
CVBS
SDA
SCL
+5
M18
M19
M20
M61
M15
M17
M16
M33
M14
M34
M32
M27
M28
7140
7100
7400
SOUND RIGHT
SOUND LEFT
ONLY HIFI INT.LS ON/OFF
SW1
PL01
LOUDSPEAKERS 4FOLD (2 FOLD HIFI)
PL02
VAR. LEVEL
1600 TUNER
1660
5455
5471
5310
5331
+141
+5.25
+20



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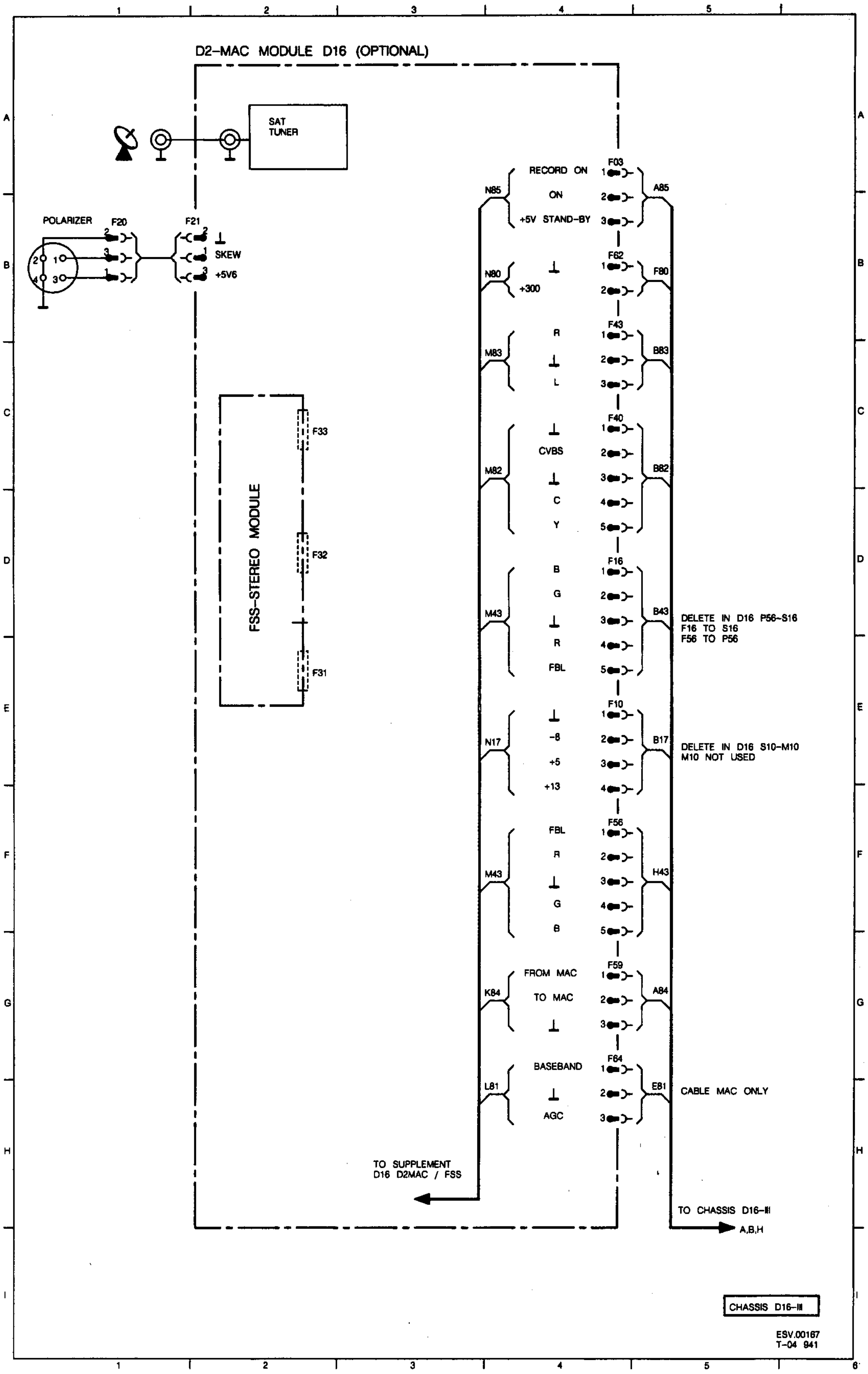
M01	5G	2641	4E	6297	4D	9365	5D
M02	1G	2659	4G	6305	4D	9375	5C
M04	5E	2705	1F	6309	3D	9391	3C
M04	5G	3112	2F	6322	4D	9400	2D
M05	5G	3116	1F	6324	5D	9401	1B
M06	5F	3122	3G	6327	5D	9402	1B
M07	5F	3125	4G	6331	3C	9415	1D
M08	5E	3148	3G	6332	3C	9416	1D
M10	5E	3153	2G	6336	3C	9424	1E
M11	4F	3154	3G	6350	5D	9450	1E
M12	4E	3155	1F	6355	5D	9454	1A
M14	2G	3157	1F	6359	5E	9455	1A
M15	1E	3160	3G	6367	4D	9456	3A
M16	4F	3163	3G	6368	4D	9457	2A
M17	2F	3166	3G	6404	1C	9458	2A
M18	3E	3174	4G	6416	1D	9460	2A
M19	2E	3175	3G	6417	1D	9461	1D
M20	1E	3176	4G	6425	1D	9465	2D
M23	5F	3179	4G	6455	2A	9471	2C
M24	5C	3237	4E	6456	2A	9476	2B
M25	5E	3238	4E	6474	3A	9477	2B
M26	2A	3241	4F	6485	1C	9479	2B
M27	1D	3242	4F	6487	1D	9485	1C
M28	1C	3245	5F	6492	1C	9497	2E
M33	2G	3252	5B	6501	1C	9498	1F
M34	1G	3254	5B	6502	1C	9501	2D
M53	5B	3256	5B	6504	2C	9504	1C
M60	5A	3258	5C	6509	2C	9511	2C
M61	2F	3259	5C	6524	2C	9525	2C
M62	4A	3262	4A	6525	2C	9602	1E
SW1	1G	3264	4A	6634	4E	9603	1E
1200	3F	3266	4A	7100	2F	9604	1E
1201	3F	3269	4A	7140	2G	9605	1E
1210	3F	3279	4B	7230	4F	9606	1E
1211	3F	3296	4D	7235	4E	9608	4E
1252	5A	3304	3C	7267	4A	9609	4E
1350	5E	3305	4C	7279	3B	9610	4E
1455	1B	3308	3D	7280	3A	9611	5F
1600	1E	3310	3D	7308	3D	9612	3E
1611	3E	3312	3D	7327	4D	9613	3E
1612	3E	3313	3D	7400	1C	9614	4E
1613	2E	3316	3D	7452	1A	9615	3E
1660	2C	3317	4D	7455	2A	9616	3E
1700	1F	3322	5D	7468	1B	9617	3E
2100	1F	3326	5D	7600	4E	9618	1E
2114	1G	3332	3C	7655	5G	9620	2E
2115	1G	3335	3B	9100	1F	9621	2E
2137	3G	3336	3B	9101	5G	9627	4E
2139	3G	3337	3B	9102	2F	9634	4F
2143	1G	3340	3C	9106	5C	9635	4E
2155	2G	3344	3C	9107	5B	9640	5E
2156	2G	3354	3C	9108	2F	9641	5E
2160	2F	3355	3A	9109	3F	9642	3E
2162	2F	3358	5E	9110	1F	9643	3E
2165	3F	3359	5E	9120	2B	9644	3E
2170	4G	3400	1D	9121	2B	9645	3E
2171	4G	3411	2D	9123	3G	9646	5F
2174	4G	3412	2D	9124	3G	9655	4G
2180	4G	3413	1D	9126	2G	9656	5F
2181	4G	3414	2D	9130	4G	9657	5G
2200	3E	3446	1E	9131	4G	9658	5G
2207	3E	3447	2D	9132	5F	9659	5E
2208	3F	3451	1A	9133	5F	9660	5G
2210	3E	3453	1A	9134	3F	9661	5F
2217	3F	3454	1A	9135	2F	9662	5F
2224	4F	3459	2E	9136	5C	9663	5F
2224	4F	3460	3B	9137	3G	9664	5F
2228	4F	3462	1A	9138	2F	9665	5F
2228	4F	3465	1B	9139	3G	9670	3E
2241	4F	3466	1B	9140	3G	9671	2E
2243	4F	3471	3A	9141	5F	9695	4E
2246	4F	3472	3A	9142	5F	9696	4E
2252	5A	3473	2B	9143	5F	9697	4E
2253	5A	3474	3B	9145	2G	9700	1G
2257	5C	3485	1C	9146	2F	9701	4F
2258	4B	3486	1D	9147	2G	9702	4F
2259	5B	3488	1C	9148	3G	9703	4F
2262	4A	3491	1B	9149	2G	9704	4F
2267	4A	3492	1B	9150	2G	9705	3F
2280	3A	3493	1C	9151	1G	9706	2F
2300	3D	3496	1B	9153	1F	9707	2E
2305	4D	3497	1C	9154	1F	9708	1F
2312	3D	3498	1C	9155	1F	9709	2G
2315	3D	3501	1D	9156	1F	9713	1F
2316	3D	3504	2C	9164	2G	9714	1F
2320	5D	3505	2C	9177	1G	9715	1G
2323	4C	3509	2C	9181	4G	PL01	1F
2325	4C	3510	2C	9182	4G	PL02	1E
2327	4D	3520	1D	9195	3B		
2329	4D	3603	2E	9203	4E		
2330	4D	3604	2E	9204	4E		
2331	3C	3605	1E	9205	3F		
2332	3C	3612	5E	9207	2E		
2333	1E	3628	4E	9208	2F		
2345	3C	3634	4E	9209	2F		
2350	5D	3641	5E	9213	4E		
2351	5D	3655	5G	9214	4E		
2352	5D	3656	5G	9227	3F		
2353	3B	3670	3E	9237	4E		
2354	3A	3671	2E	9238	4E		
2355	5D	3705	2F	9240	4F		
2359	3C	5100	4G	9243	4F		
2365	5F	5110	1F	9246	5G		
2401	1D	5150	1F	9247	4G		
2404	1D	5224	4F	9248	4F		
2405	2D	5229	4F	9253	5B		
2406	2D	5252	5A	9254	5B		
2414	2D	5253	5B	9255	5B		
2415	1D	5254	5B	9256	5C		
2416	1D	5255	5B	9267	4B		
2424	1D	5256	5C	9268	4B		
2451	1A	5268	3A	9269	4A		
2452	1A	5269	4A	9277	4B		
2455	2A	5285	4C	9278	4B		
2456	2A	5309	3D	9300	3D		
2457	1A	5310	3D	9301	5E		
2459	2A	5322	5D	9309	3D		
2460	2A	5323	4D	9310	3D		
2463	1B	5331	3C	9311	3C		
2471	2C	5350	5E	9312	4C		
2472	3B	5451	1A	9313	5D		
2473	1B	5455	1C	9314	4C		
2474	2B	5460	3B	9321	3D		
2475	3B	5471	2C	9323	4C		
2485	1C	5472	3A	9328	5E		
2493	1C	5480	2B	9329	4D		
2494	1C	5525	2D	9330	4D		
2495	1B	5526	2D	9332	4C		
2505	2C	5602	1E	9333	5E		
2507	2C	6125	3G	9334	5E		
2510	2C	6140	1F	9336	4D		
2512	2C	6150	1G	9338	5E		
2525	2D	6177	1G	9339	2E		
2526	3C	6178	1G	9350	5D		
2527	2D	6259	5B	9351	4C		
2602	2E	6260	5B	9355	4C		
2606	2E	6261	5B	9356	5F		
2612	4E	6262	4B	9357	5E		
2624	4E	6267	4A	9358	5E		
2625	4E	6268	3A	9359	5F		

DIAGRAM-SCHALTBILD-SCHEMA J

F03 -A4
F10 -E4
F16 -D4
F20 -B1
F21 -B1
F40 -C4
F43 -B4
F56 -F4
F59 -G4
F62 -B4
F64 -G4


D2-MAC MODULE D16 (OPTIONAL)
SAT TUNER
POLARIZER
F20
F21
SKEW
+5V6
FSS-STEREO MODULE
F33
F32
F31
N85
RECORD ON
ON
+5V STAND-BY
F03
A85
N80
+300
F62
F80
M83
R
L
F43
B83
M82
CVBS
C
Y
F40
B82
M43
B
G
R
FBL
F16
B43
DELETE IN D16 P56-S16
F16 TO S16
F56 TO P56
N17
-8
+5
+13
F10
B17
DELETE IN D16 S10-M10
M10 NOT USED
M43
FBL
R
G
B
F56
H43
K84
FROM MAC
TO MAC
F59
A84
L81
BASEBAND
AGC
F64
E81
CABLE MAC ONLY
TO SUPPLEMENT
D16 D2MAC / FSS
TO CHASSIS D16-III
A,B,H
CHASSIS D16-III
ESV.00167
T-04 941

MONO CARRIER PANEL

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	4822 264 50149	10P MALE FOR BTB AU
	4822 264 40207	3P MALE FOR BTB-WTB
	4822 264 50149	10P MALE FOR BTB AU
	4822 265 30389	2P MALE
	4822 264 50149	10P MALE FOR BTB AU
	4822 265 30378	4P MALE FOR BTB-WTB
	4822 265 40442	10P MALE FOR BTB-WTB
	4822 265 30351	5P MALE FOR BTB-WTB
	4822 267 40648	5POLE MALE BTB AU
	4822 265 40421	6P MALE FOR BTB-WTB
	4822 265 30351	5P MALE FOR BTB-WTB
	4822 265 30765	6 PIN
	4822 265 40822	7P MALE
	4822 290 40294	5-POLE FOR S07

Various

	4822 492 63524	FIX, TRANSISTOR
	4822 492 70272	SPRING
	4822 492 62076	SPRING FOR TRANSISTORS
	4822 256 30274	HOLDER, FUSE
	4822 325 80357	INSULATOR
	4822 290 60812	LOUDSPEAKER 8 FOLD
	4822 466 92359	CER. INSULATOR FOR 7400
	4822 267 31087	CINCH,2-WAY
	4822 535 30096	EYELET
	4822 535 30095	EYELET FOR 3259
1200	4822 242 70714	SFT5,5MHz
1201	4822 242 71713	SFE6,0MHz
1210	4822 242 70485	SFT5,74MHz
1211	4822 242 71725	SFE4,5MHz
1252	4822 253 30026	T2,5A
1350	4822 253 20089	T0,63A
1455	4822 253 10071	T0,25A
1600	4822 210 10364	U944
1600	4822 210 10365	UV816
1611	4822 212 23268	IF EUROPE D16
1611	4822 212 23254	IF FRANCE
1611	4822 212 23224	IF BG
1611	4822 212 23224	IF UK
1612	4822 212 23265	QPSK BG
1660	4822 253 30089	T2,5A

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2100	4822 121 43047	1µF 10% 63V
2101	4822 122 31746	1000pF 5% 50V
2102	4822 122 32808	1,2nF 10% 63V
2103	4822 122 31644	2,2nF 10% 63V
2104	4822 124 41738	22µF 20% 10V
2105	4822 122 31765	100pF 5% 50V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 33496	100nF 10% 63V
2110	4822 122 33496	100nF 10% 63V
2112	4822 122 31797	22nF 10% 63V
2113	4822 122 32566	3,9nF 10% 63V
2137	4822 124 40735	330µF 20% 10V
2139	4822 121 43047	1µF 10% 63V
2140	4822 122 31746	1000pF 5% 50V
2141	4822 122 32808	1,2nF 10% 63V
2142	4822 122 31644	2,2nF 10% 63V
2143	4822 124 41738	22µF 20% 10V
2144	4822 122 31765	100pF 5% 50V
2146	4822 122 33496	100nF 10% 63V
2147	4822 122 33496	100nF 10% 63V
2150	4822 122 33496	100nF 10% 63V
2153	4822 122 31797	22nF 10% 63V
2154	4822 122 32566	3,9nF 10% 63V
2160	4822 124 41663	2200µF 20% 35V
2162	4822 124 41663	2200µF 20% 35V
2165	4822 122 10167	22nF 30% 25V
2200	4822 126 10188	18pF 5%
2201	4822 122 31797	22nF 10% 63V
2202	4822 122 31797	22nF 10% 63V
2205	4822 122 31797	22nF 10% 63V
2207	4822 126 10316	12pF 5% 50V
2207	5322 122 32072	33pF
2208	4822 122 10167	22nF 30% 25V
2209	4822 122 33484	4,7nF 10% 63V
2210	5322 122 32072	33pF
2211	4822 122 31797	22nF 10% 63V
2212	4822 122 31797	22nF 10% 63V
2215	4822 122 31797	22nF 10% 63V
2217	5322 122 32072	33pF
2224	4822 121 51529	487pF 1% 400V
2225	4822 122 31797	22nF 10% 63V
2226	4822 122 31797	22nF 10% 63V
2228	4822 121 51531	715pF 1% 400V
2229	4822 121 43289	237pF 2% 400V
2229	4822 121 51504	330pF 1% 400V
2230	4822 122 31797	22nF 10% 63V
2231	4822 121 43291	549pF 1% 400V
2231	4822 121 51511	649pF 1% 400V
2235	4822 122 33484	4,7nF 10% 63V
2240	4822 122 33496	100nF 10% 63V
2241	4822 124 41509	33µF 20% 35V
2243	4822 121 51089	5,1nF 2% 160V
2246	4822 121 51089	5,1nF 2% 160V
2252	4822 124 41531	470nF 10% 250V
2253	4822 122 31052	8,2pF 0,25pF 100V
2257	4822 121 40487	100nF 10% 400V
2258	4822 126 10199	2,2nF 10% 1kV
2259	4822 126 10199	2,2nF 10% 1kV
2262	4822 124 22226	220µF 20% 385V
2267	4822 126 10201	2,7nF 10% 2kV
2268	4822 122 32891	68nF 10% 63V
2276	4822 122 31965	220pF 5% 63V
2279	4822 122 31808	150pF 10% 50V
2280	4822 121 43047	1µF 10% 63V
2297	4822 122 33484	4,7nF 10% 63V
2300	4822 124 22606	68µF 20% 16V
2305	4822 122 32585	470pF 10% 500V
2309	4822 122 33483	33nF 10% 63V
2311	4822 122 31771	390pF 5% 50V
2312	5322 122 32335	330pF 10% 100V
2313	4822 122 31961	68pF 5% 63V
2313	4822 122 31839	82pF 10% 50V
2315	4822 124 41894	680nF 5% 250V
2315	4822 124 40723	2200µF 20% 16V
2319	4822 122 32535	680pF 10% 63V
2320	4822 121 51252	470nF 5% 63V
2323	4822 124 40214	1000µF 20% 25V
2325	5322 122 32335	330pF 10% 100V
2326	4822 122 33496	100nF 10% 63V
2327	4822 124 40744	68µF 20% 40V
2328	4822 122 33496	100nF 10% 63V
2329	4822 124 40435	10µF 20% 50V
2330	4822 124 41554	220µF 20% 10V
2331	4822 122 33798	470pF 10% B 1kV
2332	4822 124 22583	47µF 160V
2333	4822 124 41506	47µF 20% 16V
2336	4822 121 41854	150nF 5% 63V
2338	5322 122 32838	82nF 10% 63V

MONO CARRIER PANEL

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2345	5322 121 42498	680nF 5% 63V
2350	4822 122 32585	470pF 10% 500V
2351	5322 124 41468	1000µF 20% 40V
2352	5322 124 41468	1000µF 20% 40V
2354	4822 122 33417	1,5nF 400V
2355	4822 122 32585	470pF 10% 500V
2356	4822 122 32597	6,8nF 10% 63V
2359	4822 121 42589	82nF 5% 63V
2360	4822 122 33483	33nF 10% 63V
2361	4822 122 31797	22nF 10% 63V
2362	4822 122 31797	22nF 10% 63V
2365	4822 124 41745	1500µF 20% 10V
2401	4822 124 40242	1µF 20% 63V
2402	4822 122 31644	2,2nF 10% 63V
2404	4822 124 41716	220µF 20% 35V
2405	5322 121 42386	100nF 5% 63V
2406	5322 121 42386	100nF 5% 63V
2410	4822 122 33482	15nF 10% 63V
2414	4822 121 42408	220nF 5% 63V
2415	4822 121 42408	220nF 5% 63V
2416	4822 124 40435	10µF 20% 50V
2424	4822 124 22263	
2451	4822 121 41689	100nF 10% 250V
2452	4822 122 31171	1,2nF 10% 500V
2455	4822 122 33382	9,1nF 5% 2000V
2456	4822 121 51526	22nF 5% 400V
2457	4822 126 10471	2,2nF 10% 2kV
2457	4822 126 10403	1,8nF 10% 2kV
2459	4822 124 41893	100µF 20% 160V
2459	4822 124 41739	47µF 20% 160V
2460	5322 122 32818	2,2nF 10% 100V
2461	4822 122 33496	100nF 10% 63V
2463	4822 124 40242	1µF 20% 63V
2464	4822 122 31797	22nF 10% 63V
2465	4822 122 32597	6,8nF 10% 63V
2465	4822 122 32856	8,2nF 10% 63V
2466	5322 122 32838	82nF 10% 63V
2469	4822 122 32891	68nF 10% 63V
2470	4822 122 33496	100nF 10% 63V
2471	4822 121 51528	470nF 5% 250V
2471	4822 121 43397	680nF 5% 250V
2472	4822 121 51528	470nF 5% 250V
2472	4822 121 51527	390nF 5% 250V
2474	4822 124 41831	1µF 20% 160V
2475	4822 121 41952	4,7nF 10% 400V
2485	4822 121 40482	68nF 10% 250V
2493	4822 122 32585	470pF 10% 500V
2494	4822 124 41741	2,2µF 10% 350V
2495	4822 121 51252	470nF 5% 63V
2496	4822 122 31797	22nF 10% 63V
2505	4822 122 32585	470pF 10% 500V
2507	4822 124 40201	1000µF 20% 16V
2510	4822 122 32585	470pF 10% 500V
2512	4822 124 40201	1000µF 20% 16V
2525	4822 122 32585	470pF 10% 500V
2526	4822 124 41747	680µF 20%
2527	5322 124 21189	100µF 20% 40V
2600	4822 122 31971	10pF 10% 50V
2602	4822 124 40195	150µF 20% 16V
2604	4822 122 31765	100pF 5% 50V
2606	4822 124 40684	150µF 20% 6,3V
2607	4822 122 31797	22nF 10% 63V
2612	4822 124 40849	330µF 20% 16V
2616	4822 122 33496	100nF 10% 63V
2617	4822 122 33496	100nF 10% 63V
2624	4822 124 40242	1µF 20% 63V

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2625	4822 124 22633	22µF 20% 35V
2626	4822 122 33496	100nF 10% 63V
2628	4822 122 31961	68pF 5% 63V
2635	4822 122 31797	22nF 10% 63V
2639	4822 124 21212	15µF 20% 40V
2640	4822 122 33496	100nF 10% 63V
2641	4822 121 42783	2,2nF 1% 250V
2642	4822 122 33496	100nF 10% 63V
2657	4822 122 31765	100pF 5% 50V
2659	4822 124 22794	47µF 20% 10V
2670	4822 122 31797	22nF 10% 63V
2701	4822 122 33496	100nF 10% 63V
2702	4822 122 33496	100nF 10% 63V
2703	4822 122 33496	100nF 10% 63V
2705	4822 124 41829	1000µF 20% 6,3V

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3100	4822 111 90151	1k5 2% 0,25W
3101	4822 111 90249	10k 2% 0,25W
3104	5322 111 90113	560Ω 2% 0,25W
3106	4822 111 90249	10k 2% 0,25W
3108	4822 111 90182	390k 2% 0,25W
3109	4822 111 90202	68k 2% 0,25W
3112	4822 111 30593	3Ω3 5% 0,33W
3114	4822 111 90572	5k6 2% 0,25W
3115	5322 111 90092	1k 2% 0,25W
3116	4822 116 52231	820Ω 5% 0,5W
3118	4822 111 90543	47k 2% 0,25W
3119	4822 111 90251	22k 2% 0,25W
3120	5322 111 90111	4k7 2% 0,25W
3121	4822 111 90569	2k7 2% 0,25W
3122	4822 116 52283	4k7 5% 0,5W
3123	4822 111 90542	27k 2% 0,25W
3124	4822 111 90572	5k6 2% 0,25W
3131	5322 111 90096	1k2 2% 0,25W
3132	5322 111 90096	1k2 2% 0,25W
3133	5322 111 90267	33k 2% 0,25W
3134	5322 111 90267	33k 2% 0,25W
3135	4822 111 90249	10k 2% 0,25W
3136	4822 111 90249	10k 2% 0,25W
3139	4822 111 90151	1k5 2% 0,25W
3140	4822 111 90249	10k 2% 0,25W
3143	5322 111 90113	560Ω 2% 0,25W
3145	4822 111 90249	10k 2% 0,25W
3148	4822 116 52297	68k 5% 0,5W
3149	4822 111 90182	390k 2% 0,25W
3153	4822 111 30593	3Ω3 5% 0,33W
3154	5322 111 90267	33k 2% 0,25W
3155	4822 116 52289	5k6 5% 0,5W
3156	5322 111 90092	1k 2% 0,25W
3157	4822 116 52231	820Ω 5% 0,5W
3163	4822 116 80176	1Ω 5% 0,5W
3177	5322 111 90267	33k 2% 0,25W
3182	5322 111 90092	1k 2% 0,25W
3184	4822 111 90543	47k 2% 0,25W
3185	5322 111 90111	4k7 2% 0,25W
3200	4822 111 90366	620Ω 2% 0,25W
3203	4822 111 90248	2k2 2% 0,25W
3204	5322 111 90092	1k 2% 0,25W
3205	4822 111 90157	3k3 2% 0,25W
3206	4822 111 90157	3k3 2% 0,25W
3207	4822 111 90366	620Ω 2% 0,25W
3207	5322 111 90109	470Ω 2% 0,25W
3208	4822 111 90248	2k2 2% 0,25W
3210	4822 111 90171	820Ω 2% 0,25W

MONO CARRIER PANEL

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3213	4822 111 90248	2k2 2% 0,25W
3214	4822 111 90571	3k9 2% 0,25W
3215	4822 111 90157	3k3 2% 0,25W
3216	4822 111 90157	3k3 2% 0,25W
3217	4822 111 90569	2k7 2% 0,25W
3218	4822 111 90248	2k2 2% 0,25W
3218	4822 111 90372	910Ω 2% 0,25W
3224	5322 111 90092	1k 2% 0,25W
3226	4822 111 90165	2k 2% 0,25W
3227	4822 111 90349	20k 2% 0,25W
3228	4822 111 90248	2k2 2% 0,25W
3229	5322 111 90092	1k 2% 0,25W
3229	4822 111 90244	1k3 2% 0,25W
3232	4822 111 90165	2k 2% 0,25W
3233	4822 111 90349	20k 2% 0,25W
3234	4822 111 90248	2k2 2% 0,25W
3237	4822 116 52206	120Ω 5% 0,5W
3238	4822 116 52206	120Ω 5% 0,5W
3240	4822 111 30515	18Ω 5% 0,33W
3241	4822 116 52759	10k 1% 0,4W
3242	4822 100 11348	1k 30% LIN
3243	4822 111 90151	1k5 2% 0,25W
3244	4822 111 90198	3k 2% 0,25W
3245	4822 116 52759	10k 1% 0,4W
3246	4822 111 90171	820Ω 2% 0,25W
3252	4822 110 42205	4M7 5% 0,5W
3256	4822 116 30333	
3258	4822 116 40138	24Ω/3MA
3258	4822 116 40033	NTC/PTC
3259	4822 113 80384	1Ω5 10% 7W
3262	4822 116 52262	240k 5% 0,5W
3263	4822 111 90249	10k 2% 0,25W
3264	4822 116 81835	150Ω 5% 2W
3266	4822 116 52262	240k 5% 0,5W
3267	4822 115 90309	56Ω 10% 5W
3269	4822 116 52186	22Ω 5% 0,5W
3270	5322 111 90109	470Ω 2% 0,25W
3273	4822 111 90215	240k 2% 0,25W
3274	4822 111 90215	240k 2% 0,25W
3275	4822 111 90215	240k 2% 0,25W
3276	5322 111 90268	5k1 2% 0,25W
3278	4822 111 90163	jumper
3279	4822 116 52284	47k 5% 0,5W
3280	5322 111 90091	100Ω 2% 0,25W
3281	4822 111 90156	300Ω 2% 0,25W
3282	4822 111 90156	300Ω 2% 0,25W
3283	4822 111 90249	10k 2% 0,25W
3284	4822 111 90339	120Ω 2% 0,25W
3285	4822 111 90339	120Ω 2% 0,25W
3286	4822 111 90339	120Ω 2% 0,25W
3294	4822 111 90543	47k 2% 0,25W
3295	5322 111 90092	1k 2% 0,25W
3296	4822 116 52228	680Ω 5% 0,5W
3297	4822 111 90214	100k 2% 0,25W
3298	4822 111 90349	20k 2% 0,25W
3299	4822 111 90157	3k3 2% 0,25W
3300	4822 111 90249	10k 2% 0,25W
3301	5322 111 90109	470Ω 2% 0,25W
3304	4822 116 52175	100Ω 5% 0,5W
3305	4822 116 52289	5k6 5% 0,5W
3306	4822 116 81832	R27 5% 0,5W
3307	4822 116 81832	R27 5% 0,5W
3308	4822 116 52269	3k3 5% 0,5W
3309	4822 111 90217	47Ω 2% 0,25W
3310	4822 116 52175	100Ω 5% 0,5W
3311	4822 111 90196	15k 2% 0,25W
3312	4822 116 52204	1k 5% 0,5W

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3313	4822 116 52239	120k 5% 0,5W
3314	5322 111 90109	470Ω 2% 0,25W
3314	4822 111 90151	1k5 2% 0,25W
3315	4822 111 90162	680Ω 2% 0,25W
3315	4822 111 90569	2k7 2% 0,25W
3316	4822 100 11348	1k 30% LIN
3317	4822 116 52175	100Ω 5% 0,5W
3319	4822 111 90373	9k1 2% 0,25W
3321	4822 111 90542	27k 2% 0,25W
3322	4822 116 52206	120Ω 5% 0,5W
3323	4822 111 90198	3k 2% 0,25W
3324	4822 111 90157	3k3 2% 0,25W
3325	4822 111 90569	2k7 2% 0,25W
3326	4822 116 52263	2k7 5% 0,5W
3327	5322 111 90111	4k7 2% 0,25W
3328	5322 111 90111	4k7 2% 0,25W
3329	4822 111 90249	10k 2% 0,25W
3331	5322 111 90111	4k7 2% 0,25W
3332	4822 116 52301	75k 5% 0,5W
3333	4822 111 90543	47k 2% 0,25W
3334	5322 111 90092	1k 2% 0,25W
3335	4822 116 81179	36Ω 5% 2W
3336	4822 116 52227	620Ω 5% 0,5W
3337	4822 116 52227	620Ω 5% 0,5W
3338	4822 111 90178	220Ω 2% 0,25W
3339	4822 111 90344	15Ω 2% 0,25W
3340	4822 116 53108	1k 1% 0,6W
3341	4822 111 90366	620Ω 2% 0,25W
3342	5322 111 90096	1k2 2% 0,25W
3343	4822 111 90157	3k3 2% 0,25W
3344	4822 100 11348	1k 30% LIN
3345	5322 111 90109	470Ω 2% 0,25W
3346	4822 111 90569	2k7 2% 0,25W
3347	4822 111 90178	220Ω 2% 0,25W
3348	5322 111 90109	470Ω 2% 0,25W
3349	4822 111 90248	2k2 2% 0,25W
3350	5322 111 90092	1k 2% 0,25W
3351	4822 111 90196	15k 2% 0,25W
3352	5322 111 90118	8k2 2% 0,25W
3353	5322 111 90267	33k 2% 0,25W
3354	4822 116 52211	150Ω 5% 0,5W
3355	4822 110 42212	8M2 5% 0,5W
3358	4822 116 52217	270Ω 5% 0,5W
3359	4822 116 52217	270Ω 5% 0,5W
3360	5322 111 90098	150Ω 2% 0,25W
3361	5322 111 90106	330Ω 2% 0,25W
3362	5322 111 90106	330Ω 2% 0,25W
3365	5322 111 90091	100Ω 2% 0,25W
3380	5322 111 90108	39k 2% 0,25W
3381	4822 111 90253	12k 2% 0,25W
3382	4822 111 90249	10k 2% 0,25W
3383	4822 111 90573	56k 2% 0,25W
3384	4822 111 90196	15k 2% 0,25W
3400	4822 116 52272	330k 5% 0,5W
3401	4822 111 90574	75k 2% 0,25W
3406	4822 111 90251	22k 2% 0,25W
3409	4822 111 90571	3k9 2% 0,25W
3410	5322 111 90099	150k 2% 0,25W
3411	4822 116 52237	110k 5% 0,5W
3412	4822 116 52917	2Ω2 1% 0,6W
3413	4822 116 52917	2Ω2 1% 0,6W
3414	4822 111 30492	2Ω2 5% STC 0,33W
3415	5322 111 90091	100Ω 2% 0,25W
3416	4822 111 90249	10k 2% 0,25W
3417	5322 111 90267	33k 2% 0,25W
3420	4822 111 90214	100k 2% 0,25W
3421	4822 111 90249	10k 2% 0,25W

MONO CARRIER PANEL

3423	4822 111 90569	2k7 2% 0,25W
3424	5322 111 90267	33k 2% 0,25W
3425	4822 111 90171	820Ω 2% 0,25W
3446	4822 116 52175	100Ω 5% 0,5W
3447	4822 116 52265	270k 5% 0,5W
3448	4822 111 90512	24k 2% 0,25W
3449	4822 111 90197	220k 2% 0,25W
3450	4822 111 90248	2k2 2% 0,25W
3451	4822 116 52244	15k 5% 0,5W
3451	4822 116 52238	12k 5% 0,5W
3452	5322 111 90098	150Ω 2% 0,25W
3453	4822 116 52241	13k 5% 0,5W
3453	4822 116 52238	12k 5% 0,5W
3454	4822 116 53418	
3454	4822 116 60523	2k2
3455	4822 111 90361	39Ω 2% 0,25W
3459	4822 116 52234	100k 5% 0,5W
3460	4822 116 52229	750Ω 5% 0,5W
3461	4822 111 90151	1k5 2% 0,25W
3462	4822 116 52302	750k 5% 0,5W
3463	4822 111 90511	130k 2% 0,25W
3464	4822 111 90215	240k 2% 0,25W
3464	4822 111 90351	200k 2% 0,25W
3465	4822 116 52262	240k 5% 0,5W
3465	4822 116 52255	200k 5% 0,5W
3466	4822 116 52283	4k7 5% 0,5W
3467	5322 111 90111	4k7 2% 0,25W
3468	5322 111 90267	33k 2% 0,25W
3469	5322 111 90092	1k 2% 0,25W
3470	4822 111 90512	24k 2% 0,25W
3471	4822 116 81836	820Ω 5% 0,5W
3471	4822 116 82149	1k5 5% 0,5W
3472	4822 116 81837	910Ω 5% 0,5W
3472	4822 116 82149	1k5 5% 0,5W
3473	4822 116 52233	10k 5% 0,5W
3474	4822 116 52264	27k 5% 0,5W
3485	4822 116 52289	5k6 5% 0,5W
3486	4822 116 52257	22k 5% 0,5W
3487	4822 111 90366	620Ω 2% 0,25W
3488	4822 116 52245	150k 5% 0,5W
3491	4822 116 52234	100k 5% 0,5W
3492	4822 116 80425	27Ω 5% 0,5W
3493	4822 116 80425	27Ω 5% 0,5W
3495	4822 111 90543	47k 2% 0,25W
3496	4822 116 52234	100k 5% 0,5W
3497	4822 116 52243	1k5 5% 0,5W
3498	4822 111 50518	1k5 5% 0,5W
3501	4822 116 52243	1k5 5% 0,5W
3504	4822 111 30483	1Ω 5% 0,33W
3505	4822 111 30483	1Ω 5% 0,33W
3509	4822 111 30483	1Ω 5% 0,33W
3510	4822 111 30483	1Ω 5% 0,33W
3520	4822 116 52257	22k 5% 0,5W
3603	4822 116 52211	150Ω 5% 0,5W
3604	4822 116 52204	1k 5% 0,5W
3605	4822 111 30515	18Ω 5% 0,33W
3605	4822 111 30515	18Ω 5% 0,33W
3612	4822 111 30497	3Ω9 5% 0,33W
3613	5322 111 90092	1k 2% 0,25W
3614	5322 111 90111	4k7 2% 0,25W
3615	5322 111 90092	1k 2% 0,25W
3616	4822 111 90544	6k8 2% 0,25W
3617	4822 111 90573	56k 2% 0,25W
3624	5322 111 90118	8k2 2% 0,25W
3625	4822 111 90124	82Ω 2% 0,25W
3627	5322 111 90267	33k 2% 0,25W
3628	4822 116 52243	1k5 5% 0,5W
3634	4822 116 52204	1k 5% 0,5W
3635	4822 111 90171	820Ω 2% 0,25W
3639	4822 111 90171	820Ω 2% 0,25W
3641	4822 100 20166	10k 30% LIN 0,1W
3642	4822 116 52274	36k 5% 0,5W
3655	4822 116 52211	150Ω 5% 0,5W
3656	4822 116 52211	150Ω 5% 0,5W
3657	5322 111 90106	330Ω 2% 0,25W
3658	5322 111 90111	4k7 2% 0,25W
3659	4822 111 90186	22Ω 2% 0,25W
3660	5322 111 90118	8k2 2% 0,25W
3661	5322 111 90092	1k 2% 0,25W
3670	4822 116 52244	15k 5% 0,5W
3671	4822 116 52257	22k 5% 0,5W
3672	4822 111 90249	10k 2% 0,25W
3705	4822 111 30483	1Ω 5% 0,33W
3747	5322 111 90109	470Ω 2% 0,25W

Jumpers

4008	4822 111 90163	jumper
4033	4822 111 90163	jumper
4100	4822 111 90163	jumper
4102	4822 111 90163	jumper
4103	4822 111 90163	jumper
4104	4822 111 90163	jumper
4117	4822 111 90163	jumper
4118	4822 111 90163	jumper
4213	4822 111 90163	jumper
4214	4822 111 90163	jumper
4296	4822 111 90163	jumper
4300	4822 111 90163	jumper
4309	4822 111 90163	jumper
4324	4822 111 90163	jumper
4342	4822 111 90163	jumper
4346	4822 111 90163	jumper
4360	4822 111 90163	jumper
4361	4822 111 90163	jumper
4380	4822 111 90163	jumper
4600	4822 111 90163	jumper
4665	4822 111 90163	jumper

5224	4822 157 60158	1µH
5229	4822 157 60158	1µH
5252	4822 158 30224	TRANSF,ASSY CU20D3
5268	4822 157 60412	150µH
5269	4822 157 51216	5,6µH
5285	4822 148 60215	SOPS
5309	4822 157 60154	1µH
5310	4822 157 60156	CU15
5322	4822 156 20915	33µH
5323	4822 156 20915	33µH
5331	4822 157 52407	39µH
5331	5322 157 52539	15µH
5350	4822 157 60153	220µH
5451	4822 148 80901	CU15
5455	4822 158 10728	TRANSF.
5460	4822 157 52407	39µH
5471	4822 157 60413	CU15
5472	4822 156 21157	AT4042/30
5472	4822 156 50086	AT4042/92B
5480	4822 140 10378	L.O.T.
5525	4822 157 52505	33µH 10%
5602	4822 157 60155	33µH 10%

MONO CARRIER PANEL

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6120	4822 130 80884	LLZ-C5V1
6136	4822 130 81512	LLZ-C6V2
6137	4822 130 81139	LLZ-C3V3
6140	4822 209 73095	P4kE30C-7000
6150	4822 209 73095	P4kE30C-7000
6203	4822 130 80888	BA682
6204	4822 130 80888	BA682
6205	4822 130 80888	BA682
6213	4822 130 80888	BA682
6214	4822 130 80888	BA682
6215	4822 130 80888	BA682
6225	4822 130 81515	BA423L
6231	4822 130 81515	BA423L
6259	4822 130 33887	GP15J-16
6260	4822 130 33887	GP15J-16
6261	4822 130 33887	GP15J-16
6262	4822 130 33887	GP15J-16
6267	4822 130 42606	BYD33J
6268	4822 130 42488	BYD33D
6275	4822 130 80446	LL4148
6278	4822 130 80446	LL4148
6279	4822 130 80446	LL4148
6280	4822 130 42488	BYD33D
6283	4822 130 80446	LL4148
6284	4822 130 80954	LLZ-C5V6
6285	4822 130 80446	LL4148
6297	4822 130 42488	BYD33D
6300	4822 130 81511	LLZ-C3V6
6305	4822 130 33529	BY229F-200
6309	4822 130 81704	MBR1060
6310	4822 130 80446	LL4148
6313	4822 130 80446	LL4148
6315	4822 130 81513	LLZ-C6V8
6319	4822 130 80446	LL4148
6321	4822 130 80446	LL4148
6322	4822 130 20193	SF2D41
6323	4822 130 80446	LL4148
6324	4822 130 30621	1N4148
6325	4822 130 80879	LLZ-C3V0
6327	4822 130 30842	BAV21
6328	4822 130 80446	LL4148
6331	4822 130 41602	BYW95C/20
6332	4822 130 41602	BYW95C/20
6333	4822 130 80446	LL4148
6334	4822 130 80879	LLZ-C3V0
6335	4822 130 80446	LL4148
6336	4822 130 30621	1N4148
6337	4822 130 80446	LL4148
6338	4822 130 80446	LL4148
6339	4822 130 80446	LL4148
6340	4822 130 80446	LL4148
6341	4822 130 81509	LLZ-C24
6344	4822 130 81512	LLZ-C6V2
6345	4822 130 80446	LL4148
6346	4822 130 81509	LLZ-C24
6347	4822 130 80446	LL4148
6350	4822 130 33529	BY229F-200
6355	4822 130 33529	BY229F-200
6359	4822 130 80223	BZX79-C8V2
6365	4822 130 80884	LLZ-C5V1
6367	4822 130 30621	1N4148
6368	4822 130 30621	1N4148
6404	4822 130 42488	BYD33D
6416	4822 130 30621	1N4148
6417	4822 130 30621	1N4148
→|		
6423	4822 130 80446	LL4148
6425	4822 130 30621	1N4148
6453	4822 130 80446	LL4148
6454	4822 130 80446	LL4148
6455	4822 130 41275	BY228/20
6456	4822 130 41602	BYW95C/20
6466	4822 130 80446	LL4148
6474	4822 130 42488	BYD33D
6485	4822 130 30842	BAV21
6487	4822 130 34233	BZX79-C5V1
6492	4822 130 42489	BYD33G
6495	4822 130 81281	LLZ-C13
6496	4822 130 80446	LL4148
6497	4822 130 80446	LL4148
6500	4822 130 81222	LLZ-C15
6501	4822 130 30621	1N4148
6502	4822 130 30621	1N4148
6503	4822 130 81514	BZV55-C47
6504	4822 130 42488	BYD33D
6509	4822 130 42488	BYD33D
6525	4822 130 80791	BYV28-200/20
6606	4822 130 81226	LLZ-F33
6634	4822 130 34233	BZX79-C5V1
6670	4822 130 80446	LL4148
⊗ ▭		
7100	4822 209 61118	TDA1514AQ/N7
7122	4822 130 61207	BC848
7123	5322 130 42012	BC858
7124	4822 130 61207	BC848
7130	5322 130 42012	BC858
7133	4822 130 61207	BC848
7137	4822 130 61207	BC848
7140	4822 209 61118	TDA1514AQ/N7
7141	4822 130 61207	BC848
7142	4822 130 61207	BC848
7143	4822 130 61207	BC848
7230	4822 209 71603	U2830B
7235	4822 209 81338	SAA1300/N6
7242	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7267	4822 130 60851	2SC3973B
7270	4822 130 42513	BC858C
7275	4822 130 42615	BC817-40
7276	5322 130 42136	BC848C
7279	4822 130 80891	CNX83A
7280	5322 130 44647	BC368
7296	5322 130 42136	BC848C
7297	4822 130 42513	BC858C
7300	4822 130 42513	BC858C
7305	4822 130 60136	BC856
7308	4822 130 61706	IRF520FI
7309	5322 130 60159	BC846B
7311	5322 130 60159	BC846B
7315	4822 130 42513	BC858C
7327	5322 209 84841	L78M05CV
7329	4822 130 42513	BC858C
7333	5322 130 42136	BC848C
7334	5322 130 42136	BC848C
7342	5322 130 42756	BC857C
7343	5322 130 42136	BC848C
7344	5322 130 42756	BC857C
7345	5322 130 42755	BC847C
7346	5322 130 42136	BC848C
7360	5322 130 42755	BC847C

MONO CARRIER PANEL

⊗ ▭		
7361	5322 130 42755	BC847C
7362	5322 130 42756	BC857C
7382	5322 130 41982	BC848B
7383	5322 130 41982	BC848B
7400	4822 209 61117	TDA8172
7424	4822 130 61207	BC848
7425	4822 130 61207	BC848
7452	4822 130 42159	TBF819
7455	4822 130 61265	BU508AF
7465	5322 130 42012	BC858
7466	5322 130 42012	BC858
7467	5322 130 42012	BC858
7468	4822 130 61705	2SD1509
7469	5322 130 42012	BC858
7495	5322 130 42012	BC858
7600	4822 209 81464	TDA2577A/N5
7613	4822 130 42513	BC858C
7615	4822 130 42513	BC858C
7655	5322 209 10883	PCF8574P
7657	4822 130 61207	BC848
7670	5322 130 41982	BC848B

HEADPHONES PANEL

Various		
	4822 265 40936	8-PIN WTB-2
	4822 267 40856	HEADPHONE JACK 3.5mm
	4822 267 31087	CINCH,2-WAY
	4822 265 40935	SVHS,
	4822 264 40207	3P MALE FOR BTB-WTB
⊣⊢		
2191	5322 122 33446	3,3nF 10% 63V
2192	5322 122 33446	3,3nF 10% 63V
2195	4822 122 32597	6,8nF 10% 63V
2196	4822 122 32597	6,8nF 10% 63V
-▭-		
3191	5322 111 90092	1k 2% 0,25W
3192	5322 111 90092	1k 2% 0,25W
3195	4822 111 90249	10k 2% 0,25W
3196	4822 111 90249	10k 2% 0,25W

MAINSSWITCH PANEL

Various		
	4822 265 30389	2P MALE
	4822 265 40596	2P MALE
	4822 276 12445	POWER SWITCH
-▭-		
3180	4822 110 42205	4M7 5% 0,5W

CONTROL PANEL

Various		
	4822 265 40442	10P MALE FOR BTB-WTB
	4822 265 30351	5P MALE FOR BTB-WTB
	4822 267 50937	FOR FOIL
1125	4822 212 23281	RC5 RECEIVER
1175	4822 242 72572	12,000 000 MHz
⊣⊢		
2125	4822 124 20672	150µF 50% 6,3V
2149	4822 122 32893	100nF 80% 50V
2155	4822 122 31797	22nF 10% 63V
2175	4822 122 32444	33pF 5% 50V
2176	4822 122 32444	33pF 5% 50V
2180	4822 122 33478	10nF 10% 63V
2185	4822 122 33478	10nF 10% 63V
2190	4822 122 33478	10nF 10% 63V
2191	4822 122 32893	100nF 80% 50V
2192	4822 122 31727	470pF 5% 63V
2193	4822 122 31727	470pF 5% 63V
2195	4822 122 31727	470pF 5% 63V
2196	4822 122 31727	470pF 5% 63V
-▭-		
3130	5322 111 90111	4k7 2% 0,25W
3131	4822 111 90249	10k 2% 0,25W
3135	5322 111 90098	150Ω 2% 0,25W
3137	5322 111 90098	150Ω 2% 0,25W
3138	5322 111 90098	150Ω 2% 0,25W
3139	5322 111 90098	150Ω 2% 0,25W
3140	5322 111 90098	150Ω 2% 0,25W
3141	5322 111 90098	150Ω 2% 0,25W
3142	5322 111 90098	150Ω 2% 0,25W
3145	5322 111 90111	4k7 2% 0,25W
3146	5322 111 90111	4k7 2% 0,25W
3147	5322 111 90111	4k7 2% 0,25W
3148	5322 111 90111	4k7 2% 0,25W
3149	5322 111 90111	4k7 2% 0,25W
3155	5322 111 90092	1k 2% 0,25W
3156	5322 111 90098	150Ω 2% 0,25W
3157	5322 111 90111	4k7 2% 0,25W
3158	5322 111 90098	150Ω 2% 0,25W
3161	5322 111 90098	150Ω 2% 0,25W
3162	5322 111 90098	150Ω 2% 0,25W
3171	5322 111 90111	4k7 2% 0,25W
Jumpers		
4185	4822 111 90163	jumper
⌒⌒⌒		
5135	4822 157 51235	4µH 7 10%
5136	4822 157 51235	4µH 7 10%
5137	4822 157 51235	4µH 7 10%
5138	4822 157 51235	4µH 7 10%
5139	4822 157 51235	4µH 7 10%
⊗ ▭		
7130	5322 209 10883	PCF8574P
7131	5322 130 42012	BC858
7150	4822 209 61124	MSM80C31FRS
7180	5322 209 81648	N74LS373N
7185	4822 209 61624	TC53001AP20/-ECO2
7185	4822 209 61879	NON-ECO TOP/FLOF
7190	4822 209 61123	GM76C28-12

SOURCE SELECT PANEL

Various

	4822 267 50661	SCART
	4822 267 31087	CINCH,2-WAY
	4822 267 40902	D2B
	4822 265 40934	SVHS,SCREW HOLE
	4822 265 30764	SVHS,SWITCH
	4822 265 30378	4P MALE FOR BTB-WTB
	4822 265 40442	10P MALE FOR BTB-WTB
	4822 265 30765	6 PIN
	4822 264 40207	3P MALE FOR BTB-WTB
	4822 265 30351	5P MALE FOR BTB-WTB
	4822 267 40794	3P FEMALE
	4822 265 40936	8-PIN WTB-2
	4822 265 40822	7P MALE
1257	4822 242 71711	FCR6,OMHz
1258	4822 242 72569	EFC-A4R43MB3
1259	4822 242 72569	EFC-A4R43MB3

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2201	4822 122 33496	100nF 10% 63V
2202	4822 122 31765	100pF 5% 50V
2203	4822 122 32916	220nF 10% 63V
2203	4822 122 33496	100nF 10% 63V
2204	4822 126 10183	330pF 10%
2205	4822 122 32916	220nF 10% 63V
2205	4822 122 33496	100nF 10% 63V
2206	4822 126 10183	330pF 10%
2207	4822 122 33496	100nF 10% 63V
2210	4822 122 33496	100nF 10% 63V
2211	4822 122 32916	220nF 10% 63V
2211	4822 122 33496	100nF 10% 63V
2212	4822 122 33496	100nF 10% 63V
2213	4822 122 32916	220nF 10% 63V
2213	4822 122 33496	100nF 10% 63V
2219	4822 122 33496	100nF 10% 63V
2220	4822 122 33496	100nF 10% 63V
2220	4822 122 32916	220nF 10% 63V
2221	4822 122 33478	10nF 10% 63V
2222	4822 122 32916	220nF 10% 63V
2222	4822 122 33496	100nF 10% 63V
2223	4822 122 33496	100nF 10% 63V
2226	5322 122 31647	1nF 10% 63V
2227	5322 122 31647	1nF 10% 63V
2230	4822 124 40435	10μF 20% 50V
2234	4822 124 40435	10μF 20% 50V
2235	4822 124 40435	10μF 20% 50V
2237	5322 122 31647	1nF 10% 63V
2238	5322 122 31647	1nF 10% 63V
2240	4822 124 40435	10μF 20% 50V
2246	4822 122 33496	100nF 10% 63V
2247	4822 122 32916	220nF 10% 63V
2248	4822 124 40202	1500μF 20% 16V
2249	4822 124 40435	10μF 20% 50V
2250	4822 124 41566	3,3μF 20% 50V
2251	4822 124 40272	33μF 20% 16V
2252	4822 124 41566	3,3μF 20% 50V
2256	4822 122 31797	22nF 10% 63V
2257	4822 122 33496	100nF 10% 63V
2258	4822 126 10183	330pF 10%
2259	4822 122 32916	220nF 10% 63V
2259	4822 122 33496	100nF 10% 63V
2260	4822 122 33496	100nF 10% 63V
2260	4822 122 32916	220nF 10% 63V
2261	4822 122 33496	100nF 10% 63V
2264	4822 122 33478	10nF 10% 63V
2265	4822 126 10183	330pF 10%
2266	4822 122 33496	100nF 10% 63V
2266	4822 122 32916	220nF 10% 63V
2267	4822 124 22606	68μF 20% 16V
2268	4822 124 22606	68μF 20% 16V
2269	4822 124 22606	68μF 20% 16V
2270	4822 122 32542	47nF 10% 63V
2271	4822 122 33496	100nF 10% 63V
2272	4822 121 42472	10nF 10% 50V
2273	4822 122 33496	100nF 10% 63V
2273	4822 122 32916	220nF 10% 63V
2274	4822 122 32916	220nF 10% 63V
2274	4822 122 33496	100nF 10% 63V
2275	4822 122 33496	100nF 10% 63V
2275	4822 122 32916	220nF 10% 63V
2276	4822 122 33496	100nF 10% 63V
2276	4822 122 32916	220nF 10% 63V
2277	4822 124 41576	2,2μF 20% 50V
2278	4822 122 33496	100nF 10% 63V
2281	4822 122 33496	100nF 10% 63V
2282	4822 122 33496	100nF 10% 63V
2285	4822 124 22606	68μF 20% 16V
2288	4822 122 31961	68pF 5% 63V
2293	4822 122 32916	220nF 10% 63V
2293	4822 122 33496	100nF 10% 63V
2294	4822 124 40435	10μF 20% 50V
2295	4822 122 33496	100nF 10% 63V
2296	4822 124 40202	1500μF 20% 16V
2309	4822 122 33478	10nF 10% 63V
2310	4822 122 31797	22nF 10% 63V
2312	4822 124 40435	10μF 20% 50V
2350	4822 122 33496	100nF 10% 63V
2351	4822 122 33496	100nF 10% 63V
2352	4822 122 32916	220nF 10% 63V
2352	4822 122 33496	100nF 10% 63V
2367	4822 122 32916	220nF 10% 63V
2367	4822 122 33496	100nF 10% 63V
2368	4822 122 33496	100nF 10% 63V
2370	4822 122 32916	220nF 10% 63V
2370	4822 122 33496	100nF 10% 63V
2371	4822 122 33496	100nF 10% 63V
2380	4822 122 33496	100nF 10% 63V
2383	4822 122 31839	82pF 10% 50V
2383	4822 122 31961	68pF 5% 63V
2384	4822 122 32765	820pF 10% 63V
2385	5322 122 31648	12nF 10% 50V
2391	4822 122 31727	470pF 5% 63V
2395	4822 124 41576	2,2μF 20% 50V
2405	4822 124 41576	2,2μF 20% 50V
2409	4822 122 31727	470pF 5% 63V
2410	4822 122 31775	680pF 5% 50V
2411	4822 122 33496	100nF 10% 63V
2414	4822 122 33496	100nF 10% 63V
2417	4822 122 33813	150nF 10% 50V
2417	4822 122 33496	100nF 10% 63V
2424	4822 122 33496	100nF 10% 63V
2425	4822 122 33496	100nF 10% 63V
2427	4822 122 33813	150nF 10% 50V
2427	4822 122 33496	100nF 10% 63V
2431	4822 124 40196	220μF 20% 16V
2432	4822 124 41525	100μF 20% 25V
2433	4822 122 33496	100nF 10% 63V
2435	4822 122 33496	100nF 10% 63V
2436	5322 121 42661	330nF 5% 63V
2437	4822 124 41643	100μF 20% 16V
2438	4822 124 41643	100μF 20% 16V
2439	4822 122 31768	180pF 5% 50V
2440	4822 122 31768	180pF 5% 50V

SOURCE SELECT PANEL

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2445	4822 124 22633	22µF 20% 35V
2446	4822 124 40195	150µF 20% 16V
2447	4822 122 33496	100nF 10% 63V
2449	4822 122 33496	100nF 10% 63V
2450	4822 122 33496	100nF 10% 63V
2451	4822 124 22347	
2453	4822 122 33484	4,7nF 10% 63V
2455	4822 122 33484	4,7nF 10% 63V
2457	4822 122 33484	4,7nF 10% 63V
2458	4822 124 41596	22µF 20% 50V
2460	4822 122 33484	4,7nF 10% 63V
2462	4822 122 33484	4,7nF 10% 63V
2464	4822 122 33484	4,7nF 10% 63V
2465	4822 122 33496	100nF 10% 63V
2468	4822 122 33496	100nF 10% 63V
2469	4822 122 33496	100nF 10% 63V
2470	4822 124 40196	220µF 20% 16V
2471	4822 122 31771	390pF 5% 50V
2472	4822 122 31773	560pF 5% 50V
2473	4822 122 33496	100nF 10% 63V
2474	5322 121 42661	330nF 5% 63V
2475	4822 122 33496	100nF 10% 63V
2475	4822 122 32916	220nF 10% 63V
2476	4822 122 33496	100nF 10% 63V
2476	4822 122 32916	220nF 10% 63V
2477	4822 122 33496	100nF 10% 63V
2477	4822 122 32916	220nF 10% 63V
2478	4822 124 41643	100µF 20% 16V
2479	4822 122 33496	100nF 10% 63V
2481	4822 122 31771	390pF 5% 50V
2482	4822 122 31773	560pF 5% 50V
2484	5322 121 42661	330nF 5% 63V
2486	4822 122 33496	100nF 10% 63V
2490	4822 122 33496	100nF 10% 63V
2490	4822 122 32916	220nF 10% 63V
2491	4822 122 31644	2,2nF 10% 63V
2505	4822 122 33478	10nF 10% 63V
2509	4822 122 31797	22nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2511	4822 122 33496	100nF 10% 63V
2511	4822 122 33812	120nF 10% 50V
2512	4822 122 31746	1000pF 5% 50V
2513	4822 122 31746	1000pF 5% 50V
2513	4822 122 31807	1200pF 5% 50V
2515	4822 124 40435	10µF 20% 50V
2516	4822 124 40195	150µF 20% 16V
2517	5322 122 31647	1nF 10% 63V
2518	4822 122 33812	120nF 10% 50V
2518	4822 122 33496	100nF 10% 63V
2519	4822 122 31746	1000pF 5% 50V
2520	4822 124 41525	100µF 20% 25V
2521	4822 122 31797	22nF 10% 63V
2522	4822 122 32893	100nF 80% 50V
2524	4822 124 41525	100µF 20% 25V
2527	4822 124 41525	100µF 20% 25V
2530	4822 122 31766	120pF 5% 50V
2531	4822 122 31808	150pF 10% 50V
2532	4822 122 33496	100nF 10% 63V
2533	4822 124 41643	100µF 20% 16V

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3190	5322 111 90091	100Ω 2% 0,25W
3197	5322 111 90109	470Ω 2% 0,25W
3198	5322 111 90111	4k7 2% 0,25W
3200	4822 111 90249	10k 2% 0,25W
3201	4822 111 90249	10k 2% 0,25W

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3202	4822 111 90339	120Ω 2% 0,25W
3203	4822 111 90565	180k 2% 0,125W
3204	5322 111 90092	1k 2% 0,25W
3205	4822 111 90565	180k 2% 0,125W
3206	5322 111 90092	1k 2% 0,25W
3207	4822 111 90371	75Ω 2% 0,25W
3208	4822 111 90249	10k 2% 0,25W
3209	4822 116 52234	100k 5% 0,5W
3210	4822 111 90205	820k 2% 0,25W
3211	4822 111 90565	180k 2% 0,125W
3212	4822 111 90205	820k 2% 0,25W
3213	4822 111 90565	180k 2% 0,125W
3214	4822 116 52233	10k 5% 0,5W
3215	4822 116 52283	4k7 5% 0,5W
3216	4822 111 90348	200Ω 2% 0,25W
3217	4822 111 90339	120Ω 2% 0,25W
3218	4822 111 90248	2k2 2% 0,25W
3219	4822 116 52283	4k7 5% 0,5W
3221	4822 111 90249	10k 2% 0,25W
3222	5322 111 90111	4k7 2% 0,25W
3224	5322 111 90109	470Ω 2% 0,25W
3225	5322 111 90118	8k2 2% 0,25W
3226	4822 116 52219	330Ω 5% 0,5W
3227	4822 116 52219	330Ω 5% 0,5W
3228	5322 111 90109	470Ω 2% 0,25W
3229	5322 111 90091	100Ω 2% 0,25W
3230	4822 111 90371	75Ω 2% 0,25W
3231	4822 116 52224	470Ω 5% 0,5W
3232	4822 111 90371	75Ω 2% 0,25W
3233	4822 111 90248	2k2 2% 0,25W
3234	5322 111 90091	100Ω 2% 0,25W
3235	4822 111 90371	75Ω 2% 0,25W
3236	5322 111 90092	1k 2% 0,25W
3237	4822 111 90371	75Ω 2% 0,25W
3238	5322 111 90091	100Ω 2% 0,25W
3239	4822 111 90162	680Ω 2% 0,25W
3240	5322 111 90242	180Ω 2% 0,25W
3241	5322 111 90098	150Ω 2% 0,25W
3242	4822 116 52224	470Ω 5% 0,5W
3243	4822 111 90203	68Ω 2% 0,25W
3244	5322 111 90109	470Ω 2% 0,25W
3245	4822 111 90371	75Ω 2% 0,25W
3246	5322 111 90109	470Ω 2% 0,25W
3247	4822 111 90161	470k 2% 0,125W
3248	4822 111 90336	1k1 2% 0,25W
3249	4822 111 30935	18Ω 5% SAFETY 0,3W
3250	4822 111 90249	10k 2% 0,25W
3251	5322 111 90109	470Ω 2% 0,25W
3252	5322 111 90106	330Ω 2% 0,25W
3253	4822 116 52204	1k 5% 0,5W
3255	4822 111 90214	100k 2% 0,25W
3256	4822 111 90249	10k 2% 0,25W
3257	4822 111 90154	270Ω 2% 0,25W
3258	5322 111 90092	1k 2% 0,25W
3259	4822 111 90565	180k 2% 0,125W
3260	4822 111 90154	270Ω 2% 0,25W
3261	4822 111 90154	270Ω 2% 0,25W
3262	5322 111 90092	1k 2% 0,25W
3263	4822 111 90371	75Ω 2% 0,25W
3264	4822 111 90371	75Ω 2% 0,25W
3265	5322 111 90092	1k 2% 0,25W
3266	4822 111 90565	180k 2% 0,125W
3267	4822 111 90245	510Ω 2% 0,25W
3268	4822 116 80337	5Ω6 5% 0,5W
3269	4822 111 30497	3Ω9 5% 0,33W
3270	4822 111 90512	24k 2% 0,25W
3271	4822 111 90165	2k 2% 0,25W

SOURCE SELECT PANEL

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3272	4822 111 90161	470k 2% 0,125W
3273	4822 111 90124	82Ω 2% 0,25W
3274	4822 111 90214	100k 2% 0,25W
3275	4822 111 90249	10k 2% 0,25W
3276	4822 111 90249	10k 2% 0,25W
3281	4822 111 90162	680Ω 2% 0,25W
3282	4822 111 90571	3k9 2% 0,25W
3284	4822 111 30515	18Ω 5% 0,33W
3285	4822 111 90154	270Ω 2% 0,25W
3286	4822 111 90239	56Ω 2% 0,25W
3287	4822 116 52224	470Ω 5% 0,5W
3288	4822 111 90154	270Ω 2% 0,25W
3289	4822 111 90339	120Ω 2% 0,25W
3290	4822 111 90203	68Ω 2% 0,25W
3291	5322 111 90118	8k2 2% 0,25W
3293	4822 111 90161	470k 2% 0,125W
3294	5322 111 90109	470Ω 2% 0,25W
3295	4822 111 90336	1k1 2% 0,25W
3296	4822 111 41423	18Ω 5% 0,3W
3297	5322 111 90092	1k 2% 0,25W
3298	4822 111 90249	10k 2% 0,25W
3299	4822 111 90565	180k 2% 0,125W
3300	4822 116 52204	1k 5% 0,5W
3301	5322 111 90106	330Ω 2% 0,25W
3302	4822 111 90249	10k 2% 0,25W
3303	4822 111 90565	180k 2% 0,125W
3305	4822 111 90565	180k 2% 0,125W
3308	5322 111 90092	1k 2% 0,25W
3309	4822 116 52204	1k 5% 0,5W
3310	4822 111 90251	22k 2% 0,25W
3313	5322 111 90109	470Ω 2% 0,25W
3316	4822 111 90565	180k 2% 0,125W
3320	5322 111 90098	150Ω 2% 0,25W
3321	5322 111 90098	150Ω 2% 0,25W
3322	5322 111 90091	100Ω 2% 0,25W
3323	5322 111 90091	100Ω 2% 0,25W
3324	5322 111 90092	1k 2% 0,25W
3325	5322 111 90092	1k 2% 0,25W
3326	4822 111 90162	680Ω 2% 0,25W
3350	4822 111 90511	130k 2% 0,25W
3352	4822 116 52291	56k 5% 0,5W
3353	4822 116 52303	8k2 5% 0,5W
3354	5322 111 90118	8k2 2% 0,25W
3367	4822 116 52291	56k 5% 0,5W
3370	4822 111 90573	56k 2% 0,25W
3380	4822 111 90249	10k 2% 0,25W
3381	4822 111 90371	75Ω 2% 0,25W
3382	4822 111 90371	75Ω 2% 0,25W
3383	5322 111 90092	1k 2% 0,25W
3387	4822 111 90248	2k2 2% 0,25W
3388	5322 111 90092	1k 2% 0,25W
3389	5322 111 90092	1k 2% 0,25W
3390	5322 111 90138	390Ω 2% 0,25W
3391	4822 116 52233	10k 5% 0,5W
3392	4822 116 52176	10Ω 5% 0,5W
3393	4822 111 90346	16k 2% 0,25W
3395	4822 111 90253	12k 2% 0,25W
3397	4822 111 90238	18k 2% 0,25W
3404	4822 111 90238	18k 2% 0,25W
3405	4822 111 90253	12k 2% 0,25W
3406	4822 116 52176	10Ω 5% 0,5W
3408	4822 111 90346	16k 2% 0,25W
3411	4822 116 52291	56k 5% 0,5W
3412	4822 116 52759	10k 1% 0,4W
3413	4822 116 53157	13k 1% 0,4W
3415	4822 116 53105	3k3 1% 0,6W
3416	4822 116 53105	3k3 1% 0,6W

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3420	4822 116 52291	56k 5% 0,5W
3422	4822 116 52759	10k 1% 0,4W
3423	4822 116 53157	13k 1% 0,4W
3425	4822 116 53105	3k3 1% 0,6W
3426	4822 116 53105	3k3 1% 0,6W
3435	4822 116 52253	2k 5% 0,5W
3445	4822 111 90423	4M7 5% 0,25W
3446	4822 116 52175	100Ω 5% 0,5W
3450	4822 111 90214	100k 2% 0,25W
3451	4822 111 90202	68k 2% 0,25W
3455	4822 111 90202	68k 2% 0,25W
3469	4822 111 90161	470k 2% 0,125W
3470	5322 111 90108	39k 2% 0,25W
3471	4822 111 90572	5k6 2% 0,25W
3472	4822 111 90249	10k 2% 0,25W
3473	5322 111 90092	1k 2% 0,25W
3474	4822 111 90544	6k8 2% 0,25W
3475	4822 111 90515	360k 2% 0,25W
3476	4822 111 90568	120k 2% 0,25W
3477	5322 111 90092	1k 2% 0,25W
3478	5322 111 90106	330Ω 2% 0,25W
3481	4822 111 90572	5k6 2% 0,25W
3482	4822 111 90249	10k 2% 0,25W
3483	5322 111 90092	1k 2% 0,25W
3484	4822 111 90515	360k 2% 0,25W
3485	4822 111 90568	120k 2% 0,25W
3486	5322 111 90092	1k 2% 0,25W
3487	5322 111 90101	1k8 2% 0,25W
3488	5322 111 90106	330Ω 2% 0,25W
3491	4822 111 90572	5k6 2% 0,25W
3505	4822 111 90572	5k6 2% 0,25W
3506	4822 116 52224	470Ω 5% 0,5W
3507	4822 116 52224	470Ω 5% 0,5W
3508	5322 111 90109	470Ω 2% 0,25W
3509	5322 111 90109	470Ω 2% 0,25W
3510	5322 111 90109	470Ω 2% 0,25W
3511	4822 111 90214	100k 2% 0,25W
3512	4822 111 90249	10k 2% 0,25W
3513	4822 116 52264	27k 5% 0,5W
3515	5322 111 90111	4k7 2% 0,25W
3516	4822 116 52297	68k 5% 0,5W
3517	5322 111 90111	4k7 2% 0,25W
3518	4822 111 90214	100k 2% 0,25W
3519	4822 111 90249	10k 2% 0,25W
3520	5322 111 90106	330Ω 2% 0,25W
3521	4822 111 90571	3k9 2% 0,25W
3524	4822 111 90367	62Ω 2% 0,25W
3527	4822 111 90367	62Ω 2% 0,25W
3573	5322 111 90101	1k8 2% 0,25W
3580	5322 111 90138	390Ω 2% 0,25W
3581	5322 111 90092	1k 2% 0,25W
3582	4822 116 52215	220Ω 5% 0,5W
3591	4822 116 52224	470Ω 5% 0,5W
3594	4822 111 90253	12k 2% 0,25W
3594	4822 111 90253	12k 2% 0,25W
3595	5322 111 90108	39k 2% 0,25W
3596	5322 111 90096	1k2 2% 0,25W
3597	4822 111 30515	18Ω 5% 0,33W
3597	4822 111 30515	18Ω 5% 0,33W
3598	4822 111 90157	3k3 2% 0,25W
3599	4822 111 90214	100k 2% 0,25W
3600	4822 111 90214	100k 2% 0,25W

SOURCE SELECT PANEL

Jumpers

4201	4822 111 90163	jumper
4202	4822 111 90163	jumper
4203	4822 111 90163	jumper
4204	4822 111 90163	jumper
4205	4822 111 90163	jumper
4206	4822 111 90163	jumper
4207	4822 111 90163	jumper
4208	4822 111 90163	jumper
4209	4822 111 90163	jumper
4210	4822 111 90163	jumper
4211	4822 111 90163	jumper
4212	4822 111 90163	jumper
4213	4822 111 90163	jumper
4215	4822 111 90163	jumper
4217	4822 111 90163	jumper
4218	4822 111 90163	jumper
4219	4822 111 90163	jumper
4220	4822 111 90163	jumper
4221	4822 111 90163	jumper
4222	4822 111 90163	jumper
4223	4822 111 90163	jumper
4224	4822 111 90163	jumper
4225	4822 111 90163	jumper
4228	4822 111 90163	jumper
4229	4822 111 90163	jumper
4230	4822 111 90163	jumper
4232	4822 111 90163	jumper
4233	4822 111 90163	jumper
4265	4822 111 90163	jumper
4360	4822 111 90163	jumper
4362	4822 111 90163	jumper
4364	4822 111 90163	jumper
4365	4822 111 90163	jumper
4366	4822 111 90163	jumper
4370	4822 111 90163	jumper
4371	4822 111 90163	jumper
4372	4822 111 90163	jumper
4373	4822 111 90163	jumper
4374	4822 111 90163	jumper
4376	4822 111 90163	jumper
4377	4822 111 90163	jumper
4378	4822 111 90163	jumper
4380	4822 111 90163	jumper
4381	4822 111 90163	jumper
4382	4822 111 90163	jumper
4383	4822 111 90163	jumper
4384	4822 111 90163	jumper
4386	4822 111 90163	jumper
4387	4822 111 90163	jumper
4388	4822 111 90163	jumper
4390	4822 111 90163	jumper
4391	4822 111 90163	jumper
4394	4822 111 90163	jumper
4395	4822 111 90163	jumper
4396	4822 111 90163	jumper
4397	4822 111 90163	jumper
4454	4822 111 90163	jumper

5267	4822 157 60155	
5272	4822 157 52512	10600,0 µH
5273	4822 157 51157	3,3µH
5384	4822 157 52512	10600,0 µH
5397	4822 157 50943	12µH
5398	4822 157 50943	12µH
5406	4822 156 21452	100µH
5407	4822 157 50943	12µH
5408	4822 157 50943	12µH
5409	4822 157 50943	12µH
5415	4822 242 72573	256BLV-5358N
5416	4822 157 50943	12µH
5417	4822 157 50943	12µH
5418	4822 157 50943	12µH
5425	4822 242 72573	256BLV-5358N

6228	4822 130 80446	LL4148
6229	4822 130 80446	LL4148
6230	4822 130 30621	1N4148
6234	4822 130 80446	LL4148
6235	4822 130 81139	LLZ-C3V3
6238	4822 130 80446	LL4148
6240	4822 130 80446	LL4148
6245	4822 130 80446	LL4148
6247	4822 130 30621	1N4148
6248	4822 130 80446	LL4148
6260	4822 130 80884	LLZ-C5V1
6261	4822 130 80884	LLZ-C5V1
6264	4822 130 80446	LL4148
6272	4822 130 80446	LL4148
6277	4822 130 80884	LLZ-C5V1
6312	4822 130 80446	LL4148
6313	4822 130 81138	LLZ-C2V7

7200	5322 209 10421	HEF4094BP
7201	5322 209 10421	HEF4094BP
7208	5322 130 41982	BC848B
7210	4822 209 10263	4052B
7214	5322 130 41982	BC848B
7216	5322 130 44743	BSR12
7220	4822 209 10263	4052B
7221	5322 130 42012	BC858
7222	5322 130 42012	BC858
7223	5322 130 41982	BC848B
7224	5322 130 44336	BSV52
7225	4822 209 61115	LF353N
7230	5322 130 41982	BC848B
7235	5322 130 41982	BC848B
7240	5322 130 42136	BC848C
7242	4822 130 41344	BC337-40
7247	5322 130 42136	BC848C
7250	5322 130 41982	BC848B
7251	4822 130 61207	BC848
7256	5322 130 41982	BC848B
7260	4822 209 61887	MSM6307ΩS
7264	5322 130 42136	BC848C
7265	5322 209 10576	4053B
7270	4822 209 10262	4051B
7273	5322 130 42136	BC848C
7274	4822 130 42513	BC858C
7280	4822 209 10262	4051B
7286	5322 130 41983	BC858B
7288	4822 130 61207	BC848
7293	5322 130 42136	BC848C
7294	5322 130 41982	BC848B
7295	4822 209 10262	4051B
7300	5322 130 41982	BC848B
7304	5322 130 41982	BC848B

SOURCE SELECT PANEL

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7310	5322 130 42136	BC848C
7312	5322 130 41982	BC848B
7350	4822 209 10263	4052B
7380	5322 130 42012	BC858
7383	4822 130 61207	BC848
7393	4822 130 41344	BC337-40
7412	4822 209 61115	LF353N
7430	4822 209 61111	ADC2301Ω/03
7450	4822 209 61623	APU2470 P2/B3
7465	4822 209 61626	APU2471/90
7470	5322 130 42136	BC848C
7473	5322 130 42136	BC848C
7474	5322 130 42012	BC858
7475	5322 130 42136	BC848C
7476	5322 130 42136	BC848C
7483	5322 130 42136	BC848C
7484	5322 130 42012	BC858
7520	5322 209 83002	TDA2822M
7530	4822 209 61115	LF353N
7531	5322 130 42136	BC848C

PICTURE TUBE PANEL

Various

	4822 265 30351	5P MALE FOR BTB-WTB
	4822 267 50861	8-POLE
	4822 264 40207	3P MALE FOR BTB-WTB
	4822 265 40596	2P MALE
	4822 212 23345	CRT SOCKET
	4822 492 62076	FOR TRANSISTORS
1930	4822 253 10099	19372(0,1A)

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2912	4822 124 40435	10µF 20% 50V
2919	5322 122 31647	1nF 10% 63V
2924	5322 122 31647	1nF 10% 63V
2929	5322 122 31647	1nF 10% 63V
2930	4822 121 42053	1µF 10% 250V
2935	4822 122 32376	InF 2kV
2937	4822 121 41856	22nF 5% 100V
2938	4822 121 51525	22nF 10% 1600V
2943	4822 124 40754	68µF 20% 63V
2946	4822 122 31961	68pF 5% 63V

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3900	5322 111 90111	4k7 2% 0,25W
3901	4822 111 90253	12k 2% 0,25W
3908	4822 111 90171	820Ω 2% 0,25W
3909	4822 111 90171	820Ω 2% 0,25W
3910	4822 111 90163	jumper
3911	4822 111 90163	jumper
3912	4822 111 30511	12Ω 5% 0,33W
3913	4822 111 90163	jumper
3914	4822 111 90171	820Ω 2% 0,25W
3915	5322 116 81136	1k2 1% 0,125W
3916	4822 111 90253	12k 2% 0,25W
3917	4822 116 81829	68k 5% 1W
3918	4822 111 90249	10k 2% 0,25W
3919	4822 111 90178	220Ω 2% 0,25W
3920	5322 116 81136	1k2 1% 0,125W
3922	4822 116 81829	68k 5% 1W
3923	4822 111 90513	330k 2% 0,25W
3924	4822 111 90178	220Ω 2% 0,25W
3925	5322 116 81136	1k2 1% 0,125W
3926	4822 111 90368	680k 2% 0,125W
3927	4822 116 81829	68k 5% 1W
3929	4822 111 90178	220Ω 2% 0,25W
3930	4822 116 52211	150Ω 5% 0,5W
3931	4822 111 50518	1k5 5% 0,5W
3932	4822 111 50518	1k5 5% 0,5W

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3933	4822 111 50518	1k5 5% 0,5W
3937	4822 111 50518	1k5 5% 0,5W
3938	4822 111 50518	1k5 5% 0,5W
3940	5322 101 10948	220k 10% 0,5W
3941	4822 111 90214	100k 2% 0,25W
3942	4822 116 52245	150k 5% 0,5W
3943	5322 111 90267	33k 2% 0,25W
3944	4822 111 90513	330k 2% 0,25W
3945	5322 111 90269	110k 2% 0,25W
3946	4822 111 90568	120k 2% 0,25W
3947	4822 111 90214	100k 2% 0,25W
3948	5322 111 90266	300k 2% 0,25W

Jumpers

4923	4822 111 90163	jumper
4928	4822 111 90163	jumper

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5935	4822 157 60534
5936	4822 157 60535

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6918	4822 130 80446	LL4148
6919	4822 130 80446	LL4148
6920	4822 130 80877	BAV103
6921	4822 130 81015	LLZ-C10
6924	4822 130 80446	LL4148
6925	4822 130 80877	BAV103
6929	4822 130 80446	LL4148
6930	4822 130 80877	BAV103
6940	4822 130 30842	BAV21
6941	4822 130 30842	BAV21
6942	4822 130 30842	BAV21
6943	4822 130 80446	LL4148
6945	4822 130 80446	LL4148

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7900	4822 130 61207	BC848
7910	4822 209 73832	TEA5101A/P
7918	5322 130 41982	BC848B
7924	4822 130 61924	BF823
7940	4822 130 61261	BF822
7943	5322 130 60508	BC857B

NICAM DECODER PANEL

Various

	4822 267 40575	3P MALE FOR WTB
	4822 265 30497	5P MALE FOR WTB
	4822 255 40901	40POLE
1200	4822 242 72305	16,384 000 MHz

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2001	4822 124 41638	2200µF 20% 16V
2001	4822 124 41638	2200µF 20% 16V
2002	4822 124 41643	100µF 20% 16V
2002	4822 124 41643	100µF 20% 16V
2200	4822 122 31825	27pF 10% 50V
2201	4822 122 31765	100pF 5% 50V
2202	4822 125 50045	20pF
2203	4822 122 33496	100nF 10% 63V
2204	4822 122 33478	10nF 10% 63V
2205	4822 124 41506	47µF 20% 16V
2206	4822 122 31797	22nF 10% 63V
2207	4822 124 41506	47µF 20% 16V
2208	4822 122 33496	100nF 10% 63V
2210	4822 122 33483	33nF 10% 63V
2211	4822 122 33483	33nF 10% 63V
2212	4822 122 31797	22nF 10% 63V
2213	4822 122 31797	22nF 10% 63V
2214	4822 124 41506	47µF 20% 16V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31797	22nF 10% 63V
2217	4822 122 31797	22nF 10% 63V
2218	4822 122 31916	5,6nF 10% 63V
2219	4822 122 31916	5,6nF 10% 63V
2220	4822 122 32535	680pF 10% 63V
2221	4822 122 32535	680pF 10% 63V
2222	4822 121 43047	1µF 10% 63V
2223	4822 121 43047	1µF 10% 63V
2224	4822 122 33478	10nF 10% 63V
2231	4822 122 32122	5,6nF 10% 50V
2232	4822 122 10181	47pF 5% 50V
2820	5322 124 40697	470µF 20% 16V
2821	5322 124 40697	470µF 20% 16V
2823	5322 124 40697	470µF 20% 16V
2824	5322 124 40697	470µF 20% 16V

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3200	4822 111 90214	100k 2% 0,25W
3201	4822 111 90214	100k 2% 0,25W
3202	4822 111 90214	100k 2% 0,25W
3203	5322 111 90092	1k 2% 0,25W
3204	4822 111 90249	10k 2% 0,25W
3206	4822 111 30483	1Ω 5% 0,33W
3207	4822 111 90543	47k 2% 0,25W
3208	4822 111 30492	2Ω2 5% STC 0,33W
3209	4822 111 90571	3k9 2% 0,25W
3210	4822 111 30499	4Ω7 5% 0,33W
3211	5322 111 90096	1k2 2% 0,25W
3212	5322 111 90096	1k2 2% 0,25W
3213	4822 111 90572	5k6 2% 0,25W
3214	4822 111 90572	5k6 2% 0,25W
3215	4822 111 30508	10Ω 5% 0,33W
3216	4822 111 30508	10Ω 5% 0,33W
3217	5322 111 90111	4k7 2% 0,25W
3218	5322 111 90111	4k7 2% 0,25W
3219	5322 111 90111	4k7 2% 0,25W
3220	5322 111 90111	4k7 2% 0,25W
3225	4822 111 30499	4Ω7 5% 0,33W

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3226	4822 111 30499	4Ω7 5% 0,33W
3821	4822 116 52226	560Ω 5% 0,5W
3823	4822 116 80337	5Ω6 5% 0,5W
3824	4822 116 52226	560Ω 5% 0,5W

Jumpers

4003	4822 111 90163	jumper
4004	4822 111 90163	jumper
4005	4822 111 90163	jumper
4006	4822 111 90163	jumper
4007	4822 111 90163	jumper

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5200	4822 152 20558	270µH
5201	4822 152 20558	270µH
5203	4822 157 51157	3,3µH
5204	4822 157 51462	10µH
5821	4822 157 50943	12µH
5824	4822 157 50943	12µH

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6200	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6202	4822 130 80446	LL4148
6203	4822 130 80446	LL4148
6204	4822 130 80446	LL4148
6205	5322 130 34953	BB405B
6820	5322 130 31938	BYV27-200
6823	5322 130 31938	BYV27-200

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7200	4822 130 61207	BC848
7201	4822 130 61304	CF70123
7202	5322 209 10883	PCF8574P
7203	4822 209 73561	SAA7220P/C
7204	4822 209 73366	TDA1543
7205	4822 209 83163	LM833N
7206	4822 209 83163	LM833N
7207	4822 209 10247	HEF4011BP

31

CHASSIS D16-III

PIP PANEL

Various

	4822 265 40472	BTB AU 10P
	4822 265 40503	BTB AU 5P
	4822 265 30351	5P MALE FOR BTB-WTB
	4822 267 60127	FOR U1300
	4822 267 60127	FOR U1300
1155	4822 320 40051	CHROMINANCE
1201	4822 242 70304	432214304220
1212	4822 242 70736	7,159 090 MHz NR-18
1300	4822 212 23286	Thickfilm unit PIP

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2100	4822 122 33496	100nF 10% 63V
2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 31797	22nF 10% 63V
2155	4822 122 33478	10nF 10% 63V
2158	4822 122 33478	10nF 10% 63V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 40244	2,2µF 20% 63V
2162	4822 122 33496	100nF 10% 63V
2171	4822 122 31961	68pF 5% 63V
2172	4822 122 32482	22pF 5% 63V
2176	4822 122 32482	22pF 5% 63V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 31797	22nF 10% 63V
2187	4822 122 31797	22nF 10% 63V
2189	4822 122 31746	1000pF 5% 50V
2194	4822 122 31797	22nF 10% 63V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF
2220	4822 122 32915	180nF 10% 50V
2221	4822 122 33813	150nF 10% 50V
2222	4822 122 32542	47nF 10% 63V
2223	4822 122 31961	68pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 40741	22µF 20% 40V
2234	4822 122 33813	150nF 10% 50V
2235	4822 124 40248	10µF 20% 63V
2238	4822 121 42937	2,7nF 1% 250V
2250	4822 122 33812	120nF 10% 50V
2251	4822 122 33813	150nF 10% 50V
2255	4822 122 31808	150pF 10% 50V
2260	4822 122 33496	100nF 10% 63V
2270	4822 122 33496	100nF 10% 63V
2281	4822 122 31808	150pF 10% 50V
2282	4822 122 31771	390pF 5% 50V
2283	4822 122 32916	220nF 10% 63V
2285	4822 122 33496	100nF 10% 63V
2294	4822 122 33496	100nF 10% 63V
2295	4822 122 33484	4,7nF 10% 63V
2296	4822 122 31808	150pF 10% 50V
2297	4822 122 31771	390pF 5% 50V
2298	4822 122 32916	220nF 10% 63V
2299	4822 122 33484	4,7nF 10% 63V
2301	4822 122 31768	180pF 5% 50V
2302	4822 122 32916	220nF 10% 63V

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2310	4822 122 33496	100nF 10% 63V
2311	4822 122 33496	100nF 10% 63V
2313	4822 122 33496	100nF 10% 63V
2315	4822 122 33496	100nF 10% 63V
2316	4822 122 33496	100nF 10% 63V
2319	4822 122 33496	100nF 10% 63V
2320	4822 122 33496	100nF 10% 63V
2332	4822 122 32597	6,8nF 10% 63V
2336	5322 122 31844	330pF 10% 63V
2337	4822 122 31727	470pF 5% 63V
2340	4822 124 40433	47µF 20% 25V
2345	4822 124 40433	47µF 20% 25V
2350	4822 124 40198	470µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2352	4822 122 32916	220nF 10% 63V
2355	4822 124 40433	47µF 20% 25V
2360	4822 124 22606	68µF 20% 16V
2372	4822 122 32916	220nF 10% 63V
2379	4822 124 40433	47µF 20% 25V
2380	4822 121 42408	220nF 5% 63V
2381	4822 121 42408	220nF 5% 63V
2382	4822 121 42408	220nF 5% 63V
2383	4822 121 42408	220nF 5% 63V
2384	4822 121 42408	220nF 5% 63V
2385	4822 121 42408	220nF 5% 63V
2387	4822 122 31768	180pF 5% 50V
2390	4822 122 33496	100nF 10% 63V
2391	4822 122 33478	10nF 10% 63V

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3103	4822 111 90171	820Ω 2% 0,25W
3104	4822 111 90171	820Ω 2% 0,25W
3105	4822 111 90167	4k3 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 111 90249	10k 2% 0,25W
3108	4822 111 90249	10k 2% 0,25W
3155	5322 111 90138	390Ω 2% 0,25W
3156	5322 111 90096	1k2 2% 0,25W
3157	4822 100 11391	330Ω LIN,
3158	4822 111 90371	75Ω 2% 0,25W
3170	4822 111 90336	1k1 2% 0,25W
3175	4822 111 90366	620Ω 2% 0,25W
3190	4822 111 90373	9k1 2% 0,25W
3196	5322 111 90092	1k 2% 0,25W
3200	4822 111 90249	10k 2% 0,25W
3201	4822 111 90249	10k 2% 0,25W
3202	4822 111 90249	10k 2% 0,25W
3211	4822 111 90249	10k 2% 0,25W
3212	4822 111 90249	10k 2% 0,25W
3220	5322 111 90268	5k1 2% 0,25W
3221	4822 111 90249	10k 2% 0,25W
3222	5322 111 90109	470Ω 2% 0,25W
3231	4822 111 90544	6k8 2% 0,25W
3232	4822 111 90186	22Ω 2% 0,25W
3233	4822 111 30515	18Ω 5% 0,33W
3234	4822 111 90156	300Ω 2% 0,25W
3235	4822 111 90171	820Ω 2% 0,25W
3236	4822 111 90154	270Ω 2% 0,25W
3237	4822 111 90339	120Ω 2% 0,25W
3238	4822 111 90542	27k 2% 0,25W
3239	4822 100 20166	10k 30% LIN 0,1W
3240	4822 111 90239	56Ω 2% 0,25W
3245	5322 111 90268	5k1 2% 0,25W
3246	5322 111 90118	8k2 2% 0,25W
3250	5322 111 90096	1k2 2% 0,25W

PIP PANEL

3255	4822 116 52204	1k 5% 0,5W
3265	4822 111 90214	100k 2% 0,25W
3270	4822 111 90249	10k 2% 0,25W
3275	4822 111 90249	10k 2% 0,25W
3276	5322 111 90092	1k 2% 0,25W
3278	5322 111 90111	4k7 2% 0,25W
3279	5322 111 90111	4k7 2% 0,25W
3280	5322 111 90306	750Ω 2% 0,25W
3281	5322 111 90092	1k 2% 0,25W
3282	5322 111 90092	1k 2% 0,25W
3283	5322 111 90092	1k 2% 0,25W
3284	4822 111 90244	1k3 2% 0,25W
3285	4822 111 90244	1k3 2% 0,25W
3286	4822 111 90171	820Ω 2% 0,25W
3288	4822 111 90157	3k3 2% 0,25W
3289	4822 111 90289	2k4 2% 0,25W
3295	4822 111 90245	510Ω 2% 0,25W
3298	5322 111 90092	1k 2% 0,25W
3299	4822 111 90244	1k3 2% 0,25W
3302	5322 111 90092	1k 2% 0,25W
3303	5322 111 90092	1k 2% 0,25W
3304	4822 111 90366	620Ω 2% 0,25W
3305	4822 111 90171	820Ω 2% 0,25W
3315	5322 111 90106	330Ω 2% 0,25W
3316	4822 050 11301	130Ω00 1% 0,4W
3317	4822 050 11301	130Ω00 1% 0,4W
3318	4822 111 90355	24Ω 2% 0,25W
3319	4822 111 90353	240Ω 2% 0,25W
3320	4822 111 90341	12Ω 2% 0,25W
3321	4822 116 52231	820Ω 5% 0,5W
3330	4822 116 52299	7k5 5% 0,5W
3331	4822 111 90249	10k 2% 0,25W
3332	4822 111 90151	1k5 2% 0,25W
3335	5322 111 90111	4k7 2% 0,25W
3336	4822 111 90196	15k 2% 0,25W
3337	4822 116 52288	510k 5% 0,5W
3340	4822 111 90249	10k 2% 0,25W
3341	4822 111 30494	2Ω7 5% 0,33W
3345	4822 111 30483	1Ω 5% 0,33W
3350	4822 111 90244	1k3 2% 0,25W
3351	5322 111 90092	1k 2% 0,25W
3353	4822 111 30483	1Ω 5% 0,33W
3354	4822 111 90154	270Ω 2% 0,25W
3355	4822 111 90248	2k2 2% 0,25W
3356	4822 111 90165	2k 2% 0,25W
3357	4822 111 30508	10Ω 5% 0,33W
3360	4822 111 90178	220Ω 2% 0,25W
3361	5322 111 90113	560Ω 2% 0,25W
3365	4822 111 90162	680Ω 2% 0,25W
3371	4822 111 90372	910Ω 2% 0,25W
3373	5322 111 90092	1k 2% 0,25W
3375	4822 111 90244	1k3 2% 0,25W
3376	5322 111 90268	5k1 2% 0,25W
3377	5322 111 90101	1k8 2% 0,25W
3378	4822 111 90178	220Ω 2% 0,25W
3379	4822 111 90178	220Ω 2% 0,25W
3387	4822 116 52204	1k 5% 0,5W
3390	4822 116 52211	150Ω 5% 0,5W
3391	5322 111 90242	180Ω 2% 0,25W
3394	4822 116 52211	150Ω 5% 0,5W
3395	5322 111 90242	180Ω 2% 0,25W
3398	5322 111 90242	180Ω 2% 0,25W
3399	4822 111 90178	220Ω 2% 0,25W

Jumpers

4001	4822 111 90163	jumper
4002	4822 111 90163	jumper
4003	4822 111 90163	jumper

5118	4822 157 60435	10,3µH
5155	4822 157 60433	7,2µH
5157	4822 157 60434	9,4µH
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5281	4822 158 10525	LAL 04T 331k
5282	4822 158 10525	LAL 04T 331k
5296	4822 158 10525	LAL 04T 331k
5297	4822 158 10525	LAL 04T 331k
5300	4822 157 51247	
5301	4822 157 52136	82MU

6315	4822 130 80884	LLZ-C5V1
6316	4822 130 81145	LLZ-F2V4
6360	4822 130 80882	LLZ-C3V9
6480	4822 130 30621	1N4148

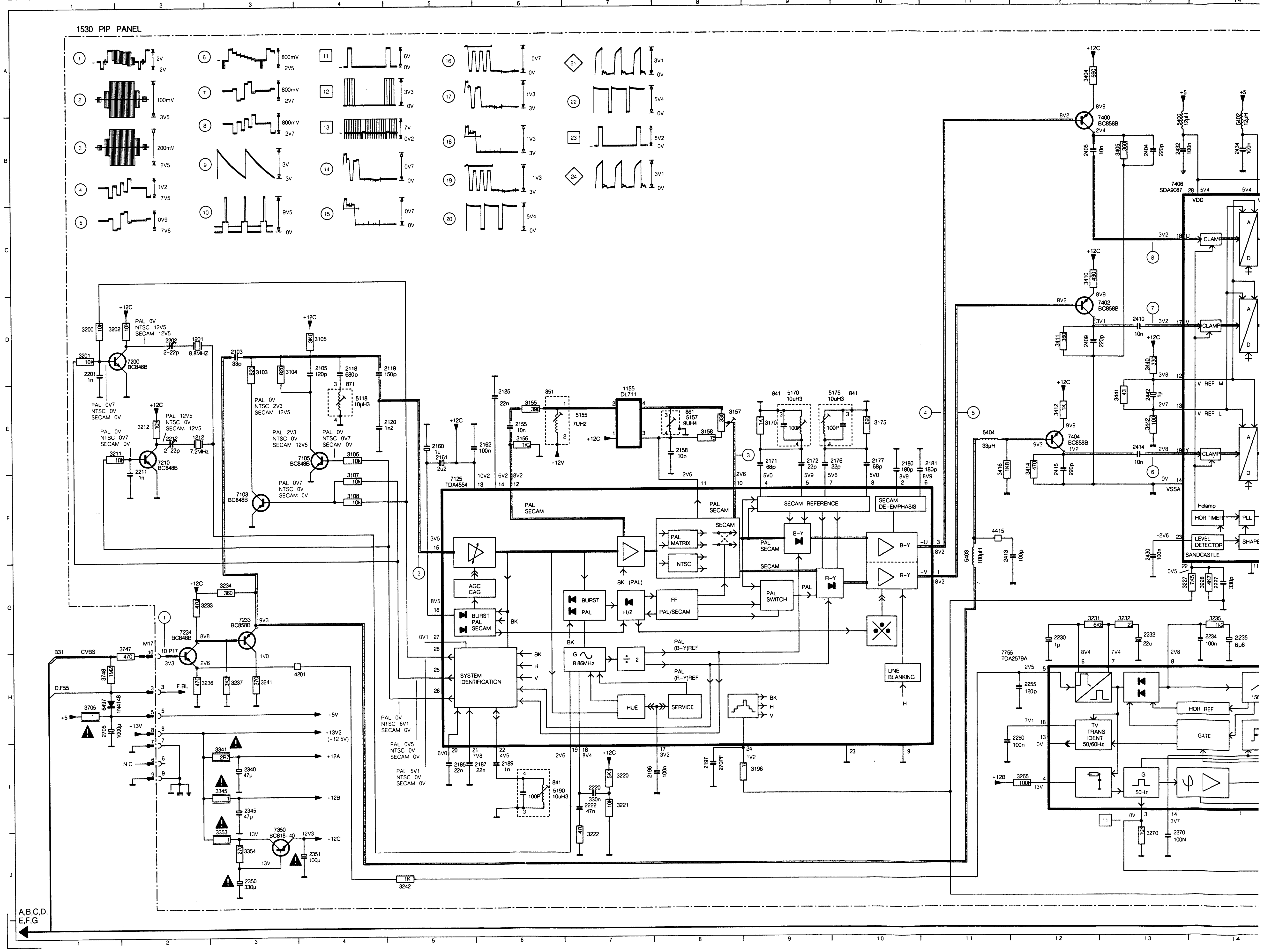
7103	4822 130 61207	BC848
7105	4822 130 61207	BC848
7125	4822 209 72513	TDA4555/V8
7200	4822 130 61207	BC848
7210	4822 130 61207	BC848
7233	4822 130 42513	BC858C
7234	5322 130 42136	BC848C
7278	5322 130 42012	BC858
7279	5322 130 42012	BC858
7280	4822 130 61207	BC848
7281	5322 130 42012	BC858
7283	5322 130 42136	BC848C
7288	4822 209 11529	PC74HC4066P
7289	4822 130 42513	BC858C
7295	4822 130 61207	BC848
7296	5322 130 42012	BC858
7298	5322 130 42136	BC848C
7304	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7310	4822 209 71586	PNA7509P
7325	4822 209 71582	PC74HC4051P
7330	4822 130 61207	BC848
7335	4822 130 61207	BC848
7340	4822 209 11529	PC74HC4066P
7345	4822 130 42513	BC858C
7350	5322 130 41982	BC848B
7355	5322 130 42136	BC848C
7365	5322 130 42136	BC848C
7375	5322 130 42136	BC848C
7380	4822 209 60479	TEA5114A
7755	4822 209 72363	TDA2579A/N8

LIST OF ERROR MESSAGES

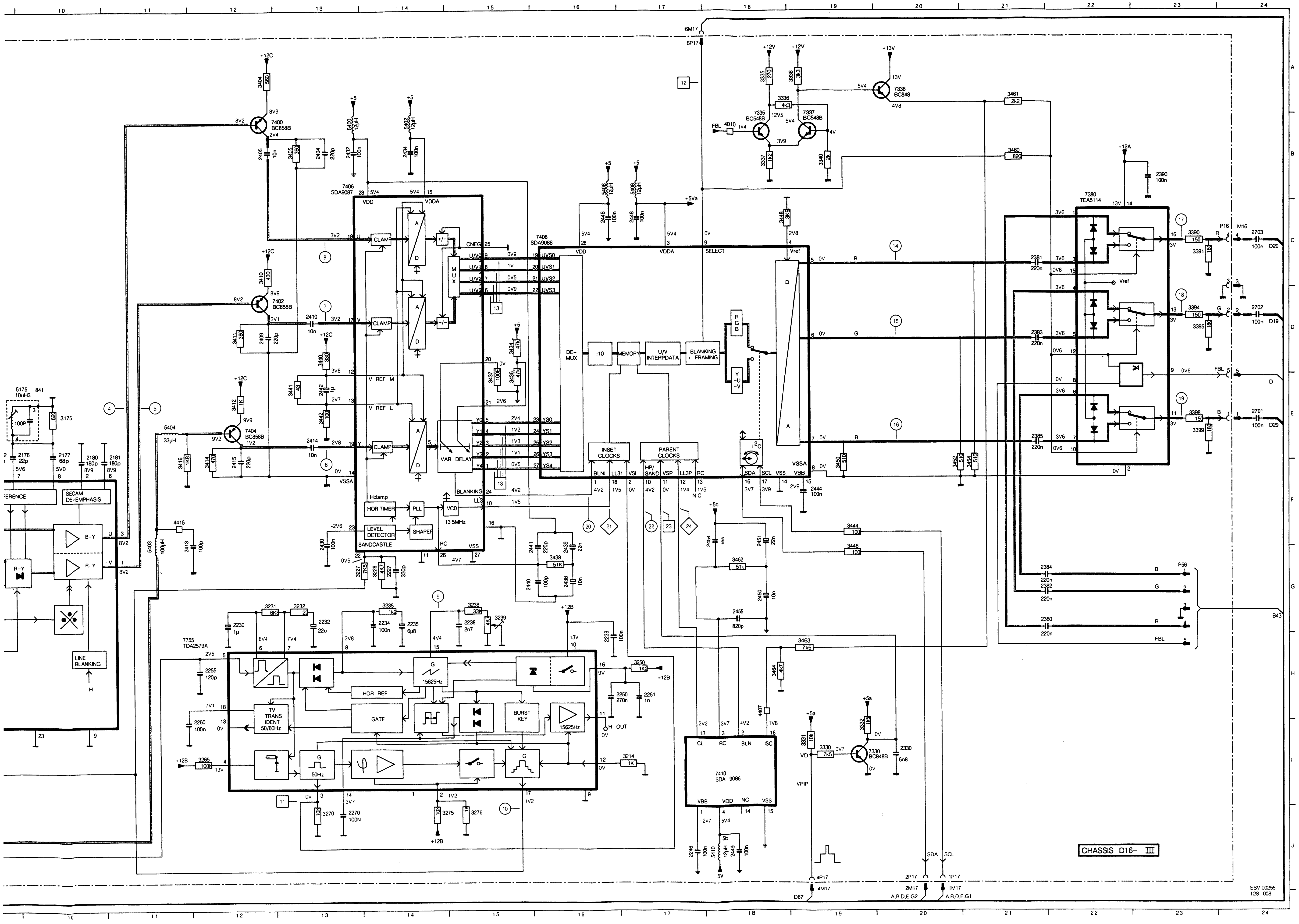
Description of error	**Error message**				
	Screen	Blinking LED indication			
		std—by	on	txt	rgb
IC7130, PCF8574	ERROR 1				X
IC7655, PCF8574 (Several switching signals)	ERROR 2			X	
IC7103, EAROM, X2404	ERROR 3			X	X
Not used	ERROR 4		X		
IC7160, TPU	ERROR 5		X		X
IC7150, 80C31 µproc. internal RAM	ERROR 6		X	X	
IC7190, MSM5128RS external RAM	ERROR 7		X	X	X
+5V digiboard, $\overline{\text{POR2}}$	ERROR 8	X			
IM-bus	ERROR 9	X			X
I^2C-bus	ERROR 10	X		X	
UV816, Tuner	ERROR 11	X		X	X
RC-input IC7150	ERROR 12	X	X		
IC7235, SAA1300	ERROR 13	X	X		X
PIP thick film U1300	ERROR 14	X	X	X	
PROTECTION	ERROR 15	X	X	X	X
Nicam I/O expander	ERROR 16				
IC7200/IC7201 strobe error	ERROR 17				X
D^2B-bus, IC7260	ERROR 18			X	
Uart	ERROR 19			X	X

If "ERROR 15 or 8" appears on the LED's, the set is switched into stand-by. This status is written into the memory. After repair, an operating command has to be given after switching on the set. If the operating command is not given, the power supply remains in stand-by.

DIAGRAM-SCHALTBILD-SCHEMA H


1530 PIP PANEL
TDA4554
SDA9087
TDA2579A
DL711
BC848B
BC858B
BC818-40
CLAMP
V REF M
V REF L
VDD
VSSA
HOR TIMER
PLL
LEVEL DETECTOR
SANDCASTLE
SHAPE
SECAM REFERENCE
SECAM DE-EMPHASIS
PAL MATRIX
NTSC
B-Y
R-Y
PAL SWITCH
FF PAL/SECAM
BURST PAL
H/2
AGC CAG
BURST PAL SECAM
SYSTEM IDENTIFICATION
8.86MHz
HUE
SERVICE
LINE BLANKING
TV TRANS IDENT 50/60Hz
HOR REF
GATE
50Hz
CVBS
F BL
+5V
+13V2 (+12.5V)
+12A
+12B
+12C
A,B,C,D, E,F,G

Suplement
CHASSIS D16-II


7406 SDA9087
7408 SDA9088
7400 BC858B
7402 BC858B
7404 BC858B
7335 BC548B
7337 BC548B
7338 BC848
7330 BC848B
7380 TEA5114
7755 TDA2579A
7410 SDA 9086
CLAMP
MUX
VAR DELAY
DE-MUX
:10
MEMORY
U/V INTERPDATA
BLANKING + FRAMING
INSET CLOCKS
PARENT CLOCKS
HOR TIMER
PLL
VCO
13.5MHz
LEVEL DETECTOR
SHAPER
SANDCASTLE
SECAM DE-EMPHASIS
B-Y
R-Y
LINE BLANKING
HOR REF
GATE
TV TRANS IDENT 50/60Hz
15625Hz
50Hz
BURST KEY
SDA
SCL
FBL
VPIP
CHASSIS D16- III
ESV 00255
T28 008

1155-E7
1201-D2
1212-E2
2103-D3
2105-E4
2118-E4
2119-E4
2120-E4
2125-E6
2155-E6
2158-E8
2160-E5
2161-E5
2162-E6
2171-F9
2172-F9
2176-F9
2177-F10
2180-F10
2181-F11
2185-I 5
2187-I 5
2189-I 6
2196-I 8
2197-I 8
2201-E1
2202-D2
2211-F2
2212-E2
2220-I 7
2222-I 7
2227-G14
2230-H12
2232-H13
2234-H14
2235-H14
2238-H15
2239-G16
2246-J17
2250-H16
2251-H17
2255-H12
2260-I 11
2270-J13
2330-I 20
2340-I 3
2345-I 3
2350-J3
2351-J4
2380-G21
2381-C22
2382-G21
2383-D22
2384-G21
2385-E22
2390-B23
2404-B13
2405-B12
2409-D12
2410-D13
2413-G12
2414-E13
2415-F12
2430-G13
2432-B13
2434-B14
2438-G16
2439-G16
2440-G16
2441-F16
2442-E13
2444-F19
2446-C16
2448-C17
2449-J18
2450-G18
2451-G18
2454-G18
2455-G18
2701-E24
2702-D24
2703-C24
2705-I 1
3103-E3
3104-E3
3105-D4
3106-E4
3107-F4
3108-F4
3155-E6
3156-E6
3157-E8
3158-E8
3170-E9
3175-E10
3196-I 9
3200-D1
3201-D1
3202-D2
3211-E1
3212-E2
3214-I 16
3220-I 7
3221-I 7
3222-J7
3227-G14
3228-G14
3231-G12
3232-G13
3233-G2
3234-G3
3235-G14
3236-H2
3237-H3
3238-G15
3239-G15
3241-H3
3242-J5
3250-H17
3265-I 12
3270-J13
3275-J14
3276-J15
3330-I 19
3331-I 19
3332-I 19
3335-A18
3336-A18
3337-B18
3338-A19
3340-B19
3341-I 3
3345-I 3
3353-J3
3354-J3
3390-C23
3391-C23
3394-D23
3395-D23
3398-E23
3399-E23
3404-A12
3405-B13
3410-D12
3411-D12
3412-E12
3414-F12
3416-F11
3434-D15
3436-D15

3437-D15
3438-G16
3440-D13
3441-E13
3442-E13
3444-F19
3446-G19
3448-C19
3450-E19
3452-E21
3454-E21
3460-B21
3461-A21
3462-G18
3463-H19
3464-H18
3705-H1
3747-H2
3748-H1
4010-B18
4201-H3
4407-H18
4415-F11
4P17-J19
5118-E4
5155-E6
5157-E8
5170-E9
5175-E9
5190-I 6
5400-B13
5402-B14
5403-G11
5404-E11
5406-C16
5408-C17
5410-J18
6497-H1
6M17-A18
6P17-A18
7103-F3
7105-E4
7125-I 5
7200-D1
7210-E2
7233-G3
7234-H2
7330-I 19
7335-B18
7337-B19
7338-A19
7350-J3
7380-E23
7400-B12
7402-D12
7404-E12
7406-F15
7408-F16
7410-J17
7755-I 12
M16 -C24
M17 -H2
P16 -D24
P17 -I 2
P56 -H23
S16 -E24
S17 -H2
p16 -E24

(NL) ELEKTRISCHE INSTRUCTIES

Zie hiervoor chassis manual D16-II/D16-III Elektrische instructies hoofdstuk D. Vervang bij punt 7 (R-Y/B-Y SECAM demodulatoren) de emittor van TS7279 door pen 1-IC7125 en de emittor van TS7278 door pen 3-IC7125. De afregelingen zijn nu verder gelijk.

(GB) ELECTRICAL INSTRUCTIONS

See chassis manual D16-II/D16-III elektrical instructions chapter D. Replace at point 7 (R-Y/B-Y demodulators) "the emitter of TS7279" by "pin 1-IC7125" and "the emitter of TS7278" by 3-IC7125.

(D) ELEKTRISCHE EINSTELLUNGEN

Siehe Handbuch Chaśsis D16-II/D16-III, Elektrische Einstellungen, Kapitel D. Ändern Sie unter Punkt 7 (R-Y/B-Y SECAM Demodulatoren): Emitter von TS7279 in Stift 1-IC7125 und Emitter von TS7278 in Stift 3-IC77125. Die weiteren Abgleiche sind wie angegeben durchzuführen.

(F) INSTRUCTIONS ELECTRIQUES

Consulter à cet effet le manuel des châssis D16-II/D16-III. Les instructions électriques se trouvent au chapitre D. Remplacer au point 7 (démodulateurs SECAM R-J/B-J) l'émetteur du TS7279 par la broche 1-CI7125 et l'émetteur du TS7278 par la broche 3-CI7125. Les réglages sont pour le reste inchangés.

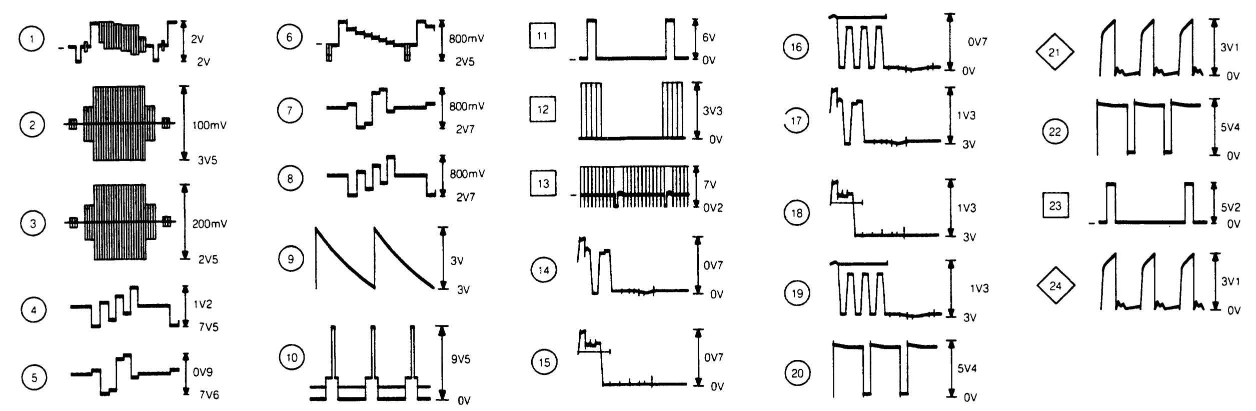
(I) ISTRUZIONI ELETTRICHE

Consultare le istruzioni fornite al capitolo D nel manuale per il telaio D16-II/D16-III. Sostituire al punto 7 (demodulatori SECAM R-Y/B-Y) l'emittor di TS7279 con il perno 1-IC7125 e l'emittor di TS7278 con il perno 3-IC7125. Le ulteriori regolazioni sono rimaste invariate.

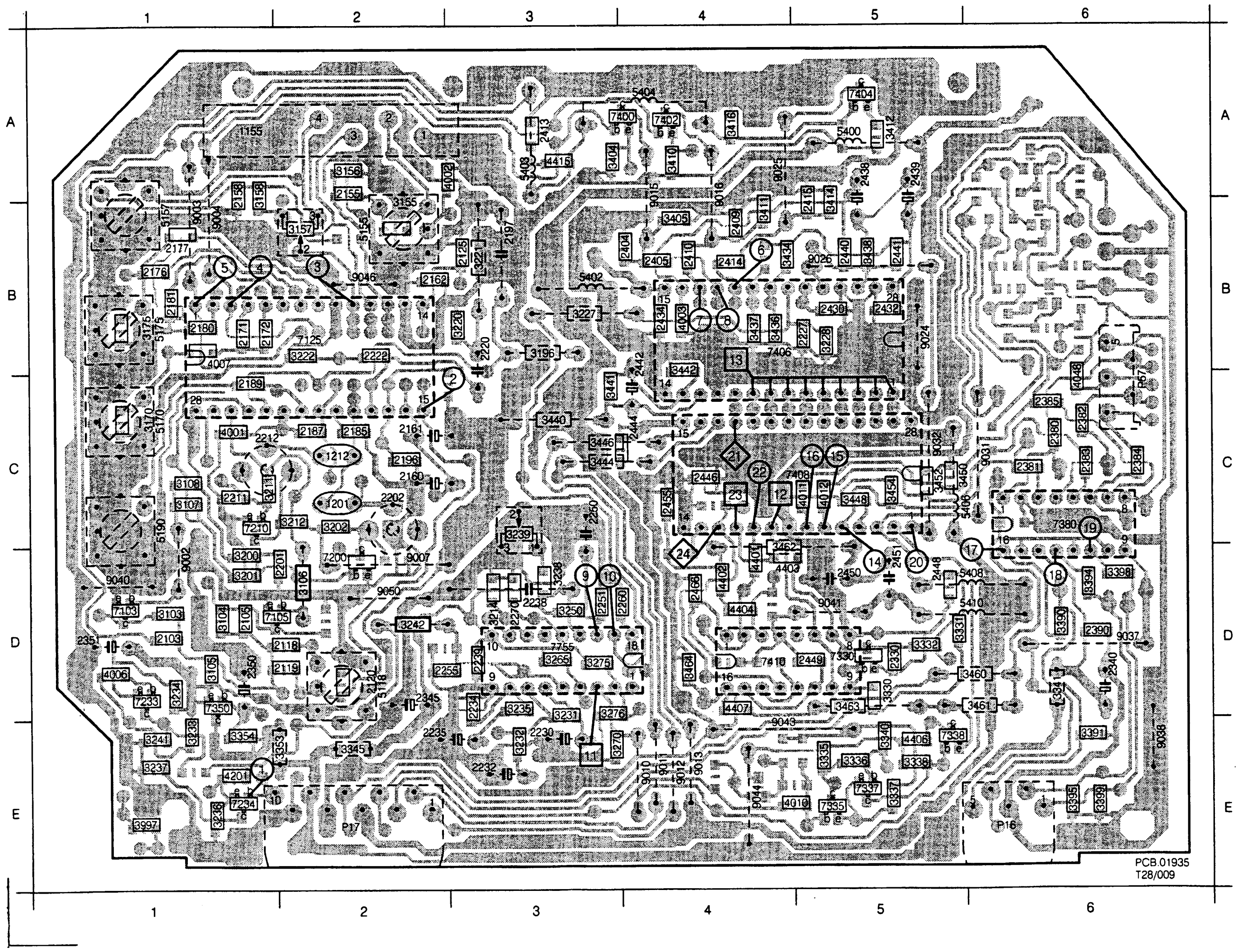
(E) INSTRUCCIONES ELÉCTRICAS

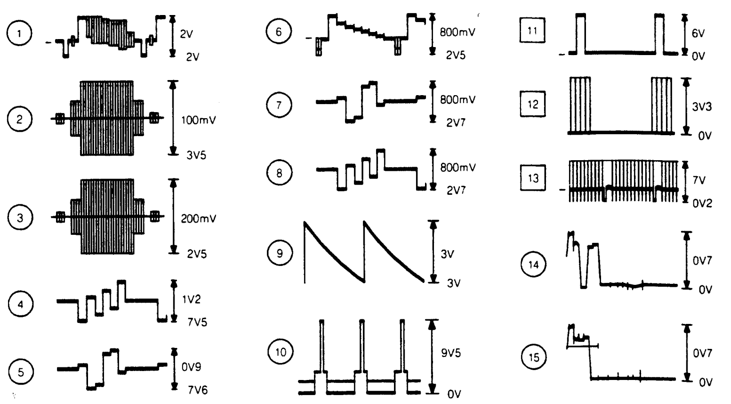
Consulte a este fin el manual del chasis D16-II/D16-III Capítulo D de las instrucciones eléctricas. Sustituya en el punto 7 (demoduladores SECAM R-Y/B-Y) el emisor de TS7279 por la espiga 1-IC7125 y el emisor de TS7278 por la espiga 3-IC7125. Los ajustes son por lo demás iguales.

PIP PANEL



P16	E6
P17	E2
P57	C6
1155	A1
1201	C2
1212	C2
2103	D1
2105	D1
2118	D1
2119	D1
2120	D2
2125	B3
2155	A2
2158	B1
2160	C2
2161	C2
2162	B2
2171	B1
2172	B1
2176	B1
2177	B1
2180	B1
2181	B1
2185	C2
2187	C2
2189	C1
2196	C2
2197	B3
2201	D2
2202	C2
2211	C1
2212	C1
2220	B3
2222	B2
2227	B5
2230	E3
2232	E3
2234	E3
2235	E2
2238	D3
2239	D3
2250	C3
2251	D3
2255	D2
2260	D4
2270	D3
2330	D5
2340	D6
2345	D2
2350	D1
2351	D1
2380	C6
2381	C6
2382	C6
2383	C6
2384	C6
2385	C6
2390	D6
2404	B4
2405	B4
2409	B4
2410	B4
2413	A3
2414	B4
2415	B5
2430	B5
2432	B5
2434	B4
2438	A5
2439	A5
2440	B5
2441	B5
2442	C4
2444	C4
2446	C4
2448	D5
2449	D5
2450	D5
2451	D5
2455	C4
2466	D4
3103	D1
3104	D1
3105	D1
3106	D2
3107	C1
3108	C1
3155	B2
3156	A2
3157	B2
3158	B1
3170	C1
3175	B1
3196	B3
3200	D1
3201	D1
3202	C2
3211	C1
3212	C2
3214	D3
3220	B3
3221	B3
3222	B2
3227	B3
3228	B5
3231	E3
3232	E3
3233	E1
3234	D1
3235	D3
3236	E1
3237	E1
3238	D3
3239	C3
3241	E1
3242	D2
3250	D3
3265	D3
3270	E3
3275	D3
3276	D3
3330	D5
3331	D5
3332	D5
3335	E5
3336	E5
3337	E5
3338	E5
3340	E5
3341	D6
3345	E2
3353	E2
3354	E1
3390	D6
3391	E6
3394	D6
3395	E6
3398	D6
3399	E6
3404	A3
3405	B4
3410	A4
3411	B4
3412	A5
3414	B5
3416	A4
3434	B4
3436	B4
3437	B4
3438	B5
3440	C3
3441	C3
3442	C4
3444	C3
3446	C3
3448	C5
3450	C6
3452	C5
3454	C5
3460	D5
3461	D6
3462	D4
3463	D5
3464	D4
3997	E1
4001	C1
4002	A3
4003	B4
4006	D1
4007	B1
4010	E4
4011	C5
4012	C5
4048	C6
4201	E1
4401	D4
4402	D4
4403	D4
4404	D4
4406	E5
4407	D4
4415	A3
5118	D2
5155	B2
5157	B1
5170	C1
5175	B1
5190	C1
5400	A5
5402	B3
5403	A3
5404	A4
5406	C6
5408	D5
5410	D5
7103	D1
7105	D1
7125	B2
7200	D2
7210	C1
7233	D1
7234	E1
7330	D5
7335	E5
7337	E5
7338	E5
7350	D1
7380	C6
7400	A3
7402	A4
7404	A5
7406	B4
7408	C4
7410	D4
7755	D3
9002	D1
9003	B1
9004	B1
9007	D2
9010	E4
9011	E4
9012	E4
9013	E4
9015	B4
9016	B4
9024	B5
9025	A4
9026	B5
9031	C6
9032	C5
9037	D6
9038	E6
9040	D1
9041	D5
9043	E4
9044	E4
9046	B2
9050	D2





P16	E1
P17	E5
P57	C1
1155	A6
1201	C5
1212	C5
2160	C5
2161	C5
2197	B4
2202	C5
2212	C5
2220	B4
2230	E4
2232	E4
2235	E5
2238	D4
2250	C4
2340	D1
2345	D5
2350	D6
2351	D6
2438	A2
2439	A2
2442	C3
2450	D2
2451	D2
3106	D5
3157	B5
3196	B4
3221	B4
3227	B4
3239	C4
3242	D5
3341	D1
3345	E5
3353	E6
3440	C4
3444	C4
3446	C4
3460	D1
3461	D1
3462	D2
3463	D2
5118	D5
5155	B5
5157	B6
5170	C6
5175	B6
5190	C6
5400	A2
5402	B4
5403	A4
5404	A3
5406	C2
5408	D1
5410	D1
7125	B5
7380	C1
7406	B3
7408	C2
7410	D3
7755	D4
9002	D6
9003	B6
9004	B6
9007	D5
9010	E3
9011	E3
9012	E3
9013	E3
9015	B3
9016	B3
9024	B2
9025	A3
9026	B2
9031	C1
9032	C2
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9038	E1
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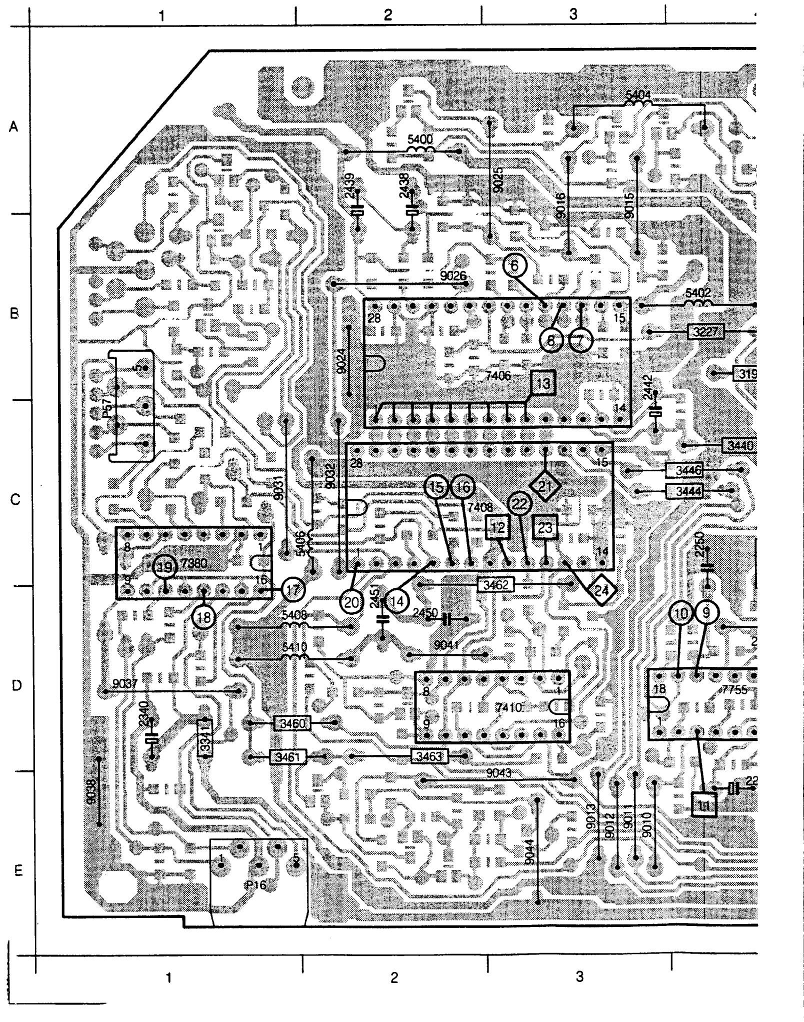
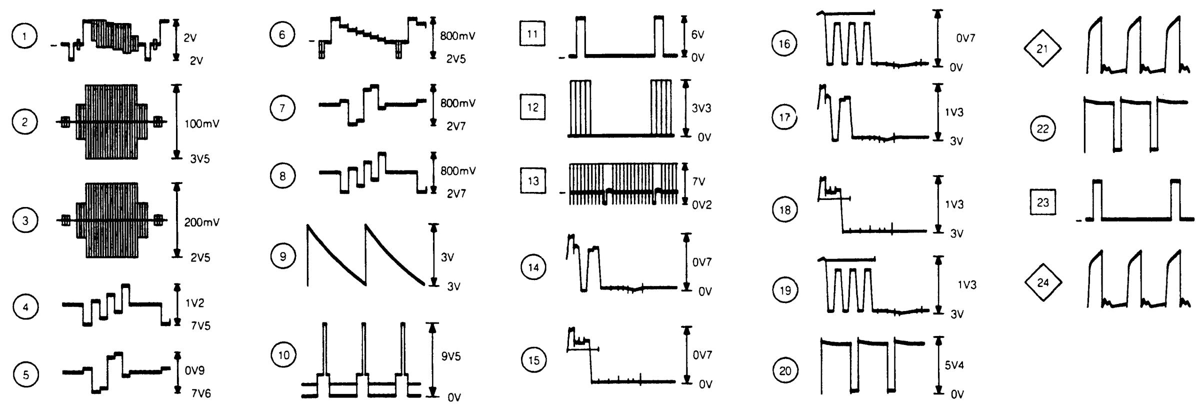
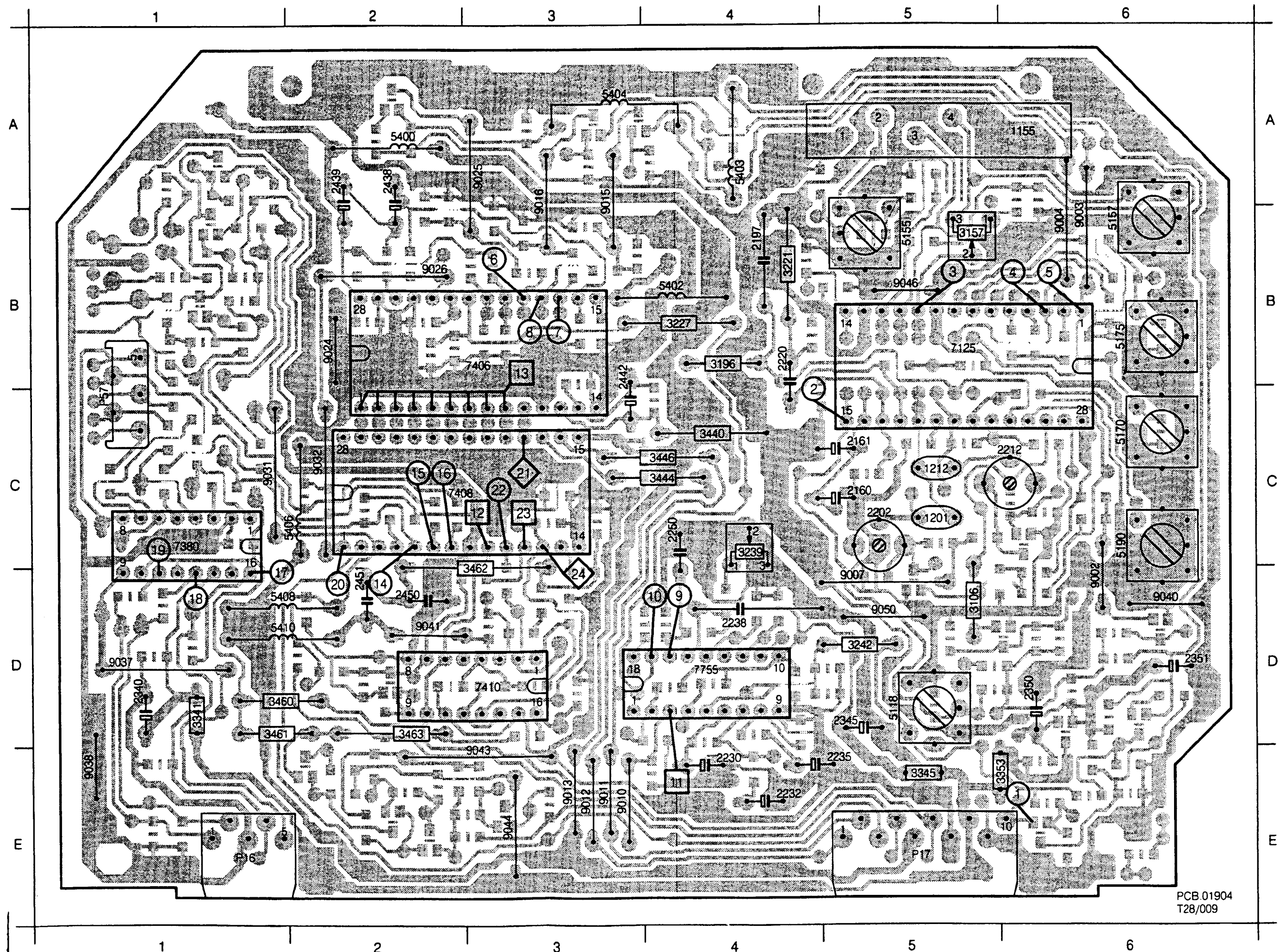
9041	D2
9043	E3
9044	E3
9046	B5
9050	D5





P16	E1	2232	E4	3106	D5	3460	D1	5404	A3	9007	D5	9038	E1
P17	E5	2235	E5	3157	B5	3461	D1	5406	C2	9010	E3	9040	D6
P57	C1	2238	D4	3196	B4	3462	D2	5408	D1	9011	E3	9041	D2
1155	A6	2250	C4	3221	B4	3463	D2	5410	D1	9012	E3	9043	E3
1201	C5	2340	D1	3227	B4	5118	D5	7125	B5	9013	E3	9044	E3
1212	C5	2345	D5	3239	C4	5155	B5	7380	C1	9015	B3	9046	B5
2160	C5	2350	D6	3242	D5	5157	B6	7406	B3	9016	B3	9050	D5
2161	C5	2351	D6	3341	D1	5170	C6	7408	C2	9024	B2		
2197	B4	2438	A2	3345	E5	5175	B6	7410	D3	9025	A3		
2202	C5	2439	A2	3353	E6	5190	C6	7755	D4	9026	B2		
2212	C5	2442	C3	3440	C4	5400	A2	9002	D6	9031	C1		
2220	B4	2450	D2	3444	C4	5402	B4	9003	B6	9032	C2		
2230	E4	2451	D2	3446	C4	5403	A4	9004	B6	9037	D1		



ELECTRICAL PARTSLIST

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	4822 265 40503	BTB AU 5P
	4822 265 40472	BTB AU 10P
	4822 265 30828	5 PIN

various

1155	4822 320 40051	Delay line DL711
1201	4822 242 70304	8,8 MHz
1212	4822 242 70736	7,2 MHz
	4822 051 10008	Jumper 0Ω, 5% 0,25W

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2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 122 32482	22pF 5% 63V
2176	4822 122 32482	22pF 5% 63V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31465	
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2252	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2330	4822 122 32597	6,8nF 10% 63V
2333	4822 122 31784	4,7nF 10% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V

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2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 124 42014	0,68µF 20% 50V
2439	4822 124 40243	1,5µF 20% 63V
2440	4822 122 31768	180pF 5% 50V
2441	4822 122 32142	270pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2444	4822 122 32893	100nF 80% 50V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2449	4822 122 32893	100nF 80% 50V
2450	4822 121 41856	22nF 5% 100V
2455	4822 122 31972	39pF 5% 50V
2466	4822 122 32893	100nF 80% 50V

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3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k60 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k20 2% 0,25W
3157	4822 100 11391	330Ω LIN,
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k10 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 116 52204	1k 5% 0,5W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k10 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10471	470Ω 2% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k70 2% 0,25W
3231	4822 051 10682	6k80 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10681	680Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k20 2% 0,25W
3236	4822 051 10361	360Ω 2% 0,25W
3237	4822 051 10332	3k30 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 116 52204	1k 5% 0,5W
3250	4822 051 10122	1k20 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 10252	7k50 2% 0,25W
3331	4822 051 10103	10k 2% 0,25W
3332	4822 051 10152	1k50 2% 0,25W
3333	4822 051 10008	0Ω 5% 0,25W
3334	4822 051 10182	1k80 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k30 2% 0,25W
3337	4822 051 10122	1k20 2% 0,25W
3338	4822 051 10332	3k30 2% 0,25W
3339	4822 051 10008	0Ω 5% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 111 30494	2Ω7 5% 0,33W
3345	4822 111 30483	1Ω 5% 0,33W
3353	4822 111 30483	1Ω 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W

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3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10331	330Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10431	430Ω 2% 0,25W
3412	4822 051 10561	560Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 20222	2k20 5% 0,1W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10563	56k 2% 0,25W
3440	4822 116 52219	330Ω 5% 0,5W
3441	4822 051 10439	43Ω 2% 0,25W
3442	4822 051 10101	100Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k90 2% 0,25W
3450	4822 051 10431	430Ω 2% 0,25W
3452	4822 051 10431	430Ω 2% 0,25W
3454	4822 051 10431	430Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52256	2k2 5% 0,5W
3462	4822 116 52244	15k 5% 0,5W
3464	4822 051 10472	4k70 2% 0,25W

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5118	4822 157 60435	10,3µH
5155	4822 157 60435	10,3µH
5157	4822 157 60434	9,4µH
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH
5402	4822 157 50943	12µH
5403	4822 157 50975	1 mH
5404	4822 156 20915	33µH
5406	4822 156 21452	100µH
5408	4822 157 50943	12µH
5410	4822 157 50943	12µH

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7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 62477	TDA4554/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7330	5322 130 41982	BC848B
7333	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088
7410	4822 209 62469	SDA9086,2
7755	4822 209 72363	TDA2579A/N8

Service Information

1990-04-20

CHASSIS D16

CT90-06

Colour television

(NL) SUPPLEMENT CHASSIS D16-II/D16-III

Vanaf productieweek 9014 wordt er in apparaten met chassis D16-II en chassis D16-III met PIP (Picture In Picture) een nieuw PIP paneel toegepast. Indien een oud paneel door een nieuw vervangen wordt, dient er alleen op de in het apparaat aanwezige software gelet te worden (zie service information CT89-19).

1 **Tot software datum 891025.**
Het IC met de systeem software (IC7185) dient vervangen te worden door 4822 209 62221, zie verder punt 2.

2 **Vanaf software datum 891025.**
Het nieuwe paneel is volledig compatibel met het oude paneel. Alleen de optiecode en de PIP adressen dienen gewijzigd te worden, zie service information CT89-19.

(GB) SUPPLEMENT CHASSIS D16-II/D16-III

In sets with chassis D16-II and chassis D16-III with PIP (Picture In Picture) a new PIP panel has been used from productionweek 9014 onwards. When replacing the old PIP panel by a new PIP panel one should check the software version present in the set (see also service information CT89-19).

1. **Up to software date 891025.**
The IC with the system software (IC7185) has to be replaced by 4822 209 62221, further see point 2.

2. **From software date 891025 onwards.**
Both panels are fully compatible. Adjust the optioncode and the PIP adresses to the new panel, see service information CT89-19.

(D) ANHANG CHASSIS D16-II/D16-III

Ab Produktionswoche 9014 wird in Geräten mit Chassis D16-II und Chassis D16-III mit PIP (Picture in Picture = Bild im Bild) eine neue PIP-Platine zur Anwendung kommen. Beim Austauschen einer alten Platine gegen eine neue ist nur die im Gerät enthaltene Software zu beachten (Siehe "Service Information CT89-19").

1 **Bis Softwaredatum 891025**
Das IC mit der Systemsoftware (IC7185) ist gegen ein 4822 209 62221 auszutauschen, siehe ferner unter Punkt 2.

2 **Ab Softwaredatum 891025**
Die neue Platine ist mit der alten völlig kompatibel. Nur der Optionscode und die PIP-Adressen sind zu ändern, siehe "Service Information CT89-19".

(F) SUPPLEMENT AUX CHASSIS D16-II/D16-III

A partir de la semaine de production 9014, un nouveau panneau PIP (pour incrustation d'image) est utilisé dans les appareils munis de châssis D16-II et D16-III avec incrustation d'image. Si un ancien panneau doit être remplacé par un nouveau, il suffit de contrôler le logiciel présent dans l'appareil (se reporter à cet effet aux informations techniques CT89-19).

1 **Jusqu'au 891025 pour le logiciel**
Le CI accompagnant le logiciel du système (CI 7185) doit être remplacé par 4822 209 62221, voir pour la suite le point 2.

2 **Depuis le 891025 pour le logiciel**
Le nouveau panneau est totalement compatible avec l'ancien. Il suffit de modifier uniquement le code d'option et les adresses pour incrustation d'image, voir informations techniques CT89-19.

(I) SUPPLEMENTO TELAIO D16-II/D16-III

A partire dalla settimana di produzione 9014, gli apparecchi con telaio D16-II e D16-III con PIP (Picture in Picture) verranno muniti di un nuovo pannello PIP. Se deve essere sostituito un vecchio pannello con uno nuovo è solamente necessario osservare il software presente nell'apparecchio (ved. l'informazione di servizio CT89-19).

1 **Software fino alla data 891015**
Il CI con il software del sistema (IC7185) deve essere sostituito con il 4822 209 62221; per il resto consultare il punto 2.

2 **Software a partire dalla data 891025**
Il nuovo pannello è completamente compatibile con quello vecchio. E' necessario soltanto modificare il codice dell'opzione e gli indirizzi PIP; consultare in merito l'informazione di servizio CT89-19.

(E) CHASIS COMPLEMENTARIO D16-II/D16-III

A partir de la semana de producción 9014, en los aparatos con chasis D16-II y chasis D16-III con PIP (Picture In Picture = Imagen en la Imagen) se emplea un nuevo tipo de panel PIP. En adelante, cuando haya que sustituir un panel antiguo por uno nuevo sólo habrá que prestar atención al "software" que tenga el aparato (consulte la información de servicio CT89-19).

1 **Hasta la fecha de software 891025.**
El CI con el sistema de software (IC7185) hay que substituirlo por el 4822 209 62221, ver más adelante el punto 2.

2 **Desde la fecha de software 891025.**
El nuevo panel es del todo compatible con el antiguo. Sólo hay que cambiar el código de opción y las direcciones PIP, consulte la información de servicio CT89-19.